Tecnoware Products 2025

Different Power Solutions

TECNOWARE®
ITALIAN POWER SYSTEMS

English

At Tecnoware we have been designing and creating Products and Solutions for the *electric continuity of Individuals, Businesses and Industries since 1986*, using the most advanced technologies in compliance with the Environment and Safety.

Building fruitful relationships with our *Partners*, is the core of our *Company Mission*, guaranteeing mutual growth and the continuous improvement of the *professionalism* of our services and the *quality of our products*.

At Tecnoware we invest in training our *Employees*, recognising that the quality of the work and the customer satisfaction depend on the *Company's Well-being*.

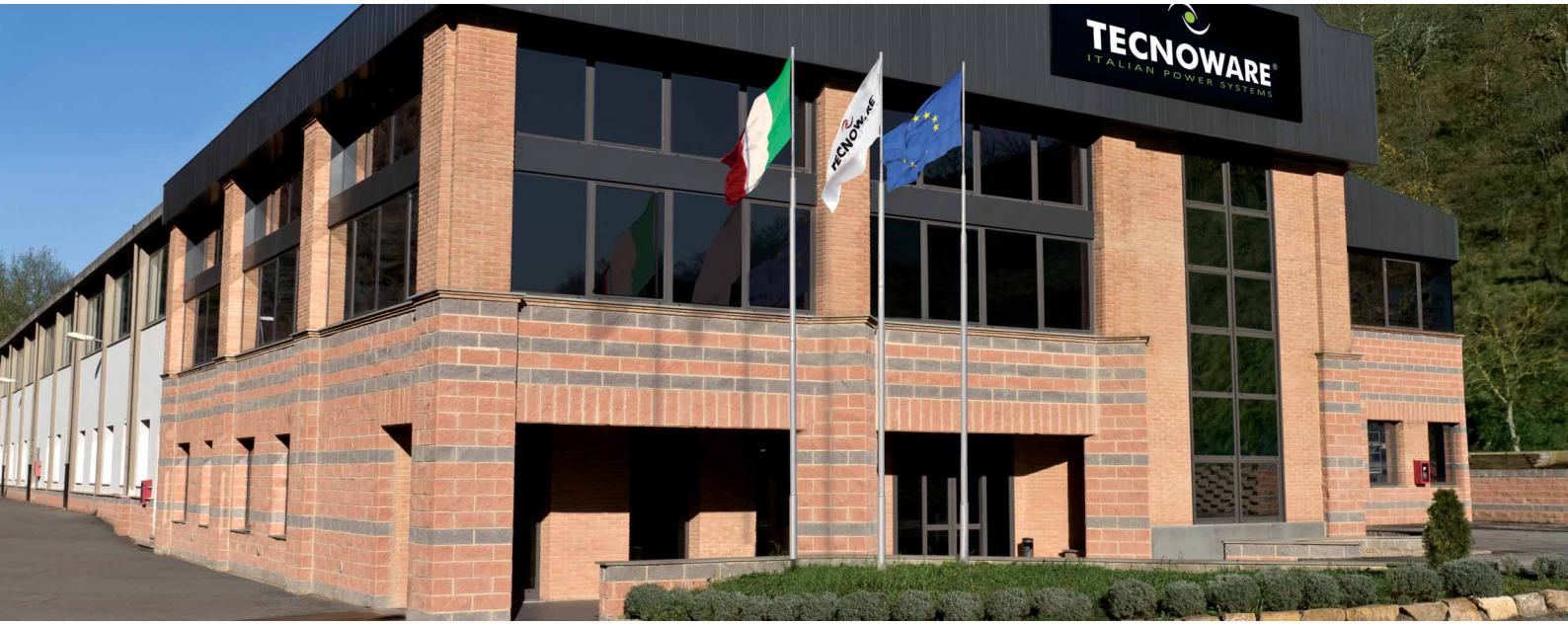
Tecnowares *Environmental Sensitivity* has translated in the so-called "*Together On*" philosophy, which motivates, pushes and inspires our Stakeholders towards more and more Eco sustainable choices.

The enthusiasm and commitment of our company increase together with our successes and strengthen *the loyalty to the values* which conquered the confidence of our Partners during our Corporate History.

TECNOWARE®
ITALIAN POWER SYSTEMS

ITALIAN QUALITY IN THE WORLD

Tecnoware has been manufacturing UPS for private individuals, companies and industry since 1986.



Together on

Together On Philosophy: High efficiency, 100% materials Recyclable, Sustainable Development Projects.

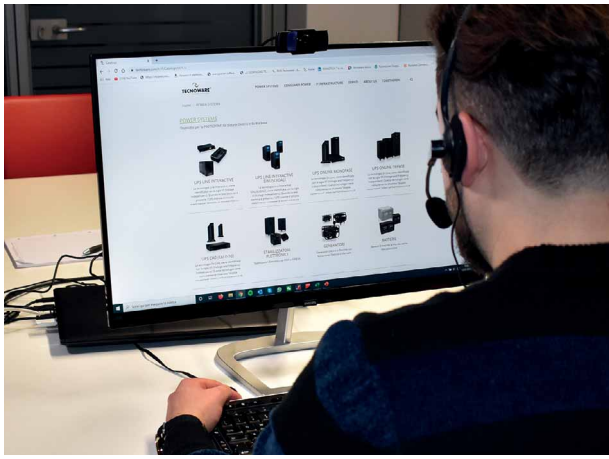
Over 70 controls and use of components first choice to guarantee products up to 5 years

5 Years Warranty

Branches and Partners in
50 Countries in the World.

Training, Webinar,
Digital Comunication and Events.

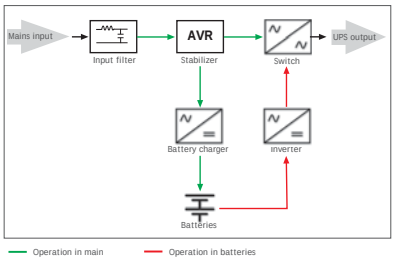
Personal Configurator Service:
a Partner support through
guided configurations by our professionals.



24/7 Technical / Commercial Support, Shipping in 24 hours,
Configurations in 30 minutes and Installations and maintenance On-site.

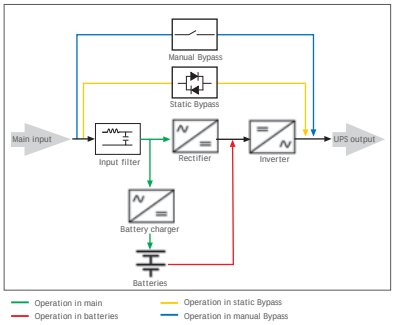
UPS Technology

According to the standard regulation: IEC 62040-3, UPS are classified and identified as follows:



Line Interactive (VI)
The Line Interactive, Technology is identified with the initials: VI (Voltage Independent). This means that while operating in Mains the UPS output frequency is dependent on the input frequency while the voltage is handled by the UPS. It is in fact through the stabilizer circuit that these UPS are able to protect the connected equipment from persistent voltage disturbances such as overvoltage, and Blackout.

These include the: Era PLUS Strip, Era PLUS, Era PLUS Active, Era PLUS RM and Exa PLUS.



On Line (VFI)
The On Line Technology is identified with the initials: VFI (Voltage and Frequency Independent). This technology is commonly called "double conversion". During operations in mains, the UPS output is fed through the rectifier which converts the UPS input voltage from alternated to continuous voltage, in conjunction with the inverter which transforms again the continuous voltage into alternated voltage. This system permits to output voltage to be perfectly sinusoidal, clean and very stable in voltage and frequency, apart from problems present in the mains.

These include the: Evo DSP PLUS and EVO DSP PLUS Modular.

Electric phenomenon and solutions

UPS	Blackout	Dynamic Undervoltage	Dynamic Overvoltage	Undervoltage	Overvoltage	Lightning (Adding a discharger upstream)	Voltage Surge	Frequency Variation	Voltage Distortion	Voltage Harmonic
Era PLUS DC - USB 5VDC 2A, USB-C OUTPUT 5V/9V/12V/15V/20V										
Era Plus DC 9 Vdc/12 Vdc - POE 24Vdc/48Vdc - USB 5Vdc										
Era Plus Strip 1.000 (VI)										
Era Plus RM 1.200 (VI)										
Era Plus 600-800-950-1.200-1.600-2.100-2.600 (VI)										
Era Plus Active 1.200-1.600 (VI)										
Exa Plus 1.100-1.600-2.100-3.000-4.500 (VI)										
Evo DSP Plus 1.200-2.400-3.600-5.500 PF 0,9 (VFI)										
Evo DSP Plus 1.200-2.400-3.600 Rack Tower PF 0,9 (VFI)										
Evo DSP Plus 6.0-10.0 PF 1 (VFI)										
Evo DSP Plus 6.0-10.0 Rack Mount PF 1 (VFI)										
Evo DSP Plus Modular 20.0-300.0 400 Vac PF 1 (VFI)										
Evo DSP Plus Modular 20.0-140.0 208 Vac PF 1 (VFI)										
Evo DSP Plus Modular 70.0-700.0 480 Vac PF 1 (VFI)										
Evo DSP Plus TM 10.0-20.0 PF 1 (VFI)										
Evo DSP Plus TT 10.0-20.0-30.0 PF 1 (VFI)										
Evo DSP Plus TT 40.0-60.0 PF 1 (VFI)										
Evo DSP Plus TT 80.0-100.0-120.0-160.0-200.0-240.0-300.0 PF 1 (VFI)										

SUMMARY

UPS

UPS Era PLUS DC - USB 5VDC 2A, USB-C OUTPUT 5V/9V/12V/15V/20V Together on NEW Pag. 8

UPS Era Plus DC 9VDC/12VDC - POE 24VDC/48VDC - USB 5VDC Together on Pag. 9

Line Interactive (VI)

UPS Era Plus Strip 1.000 Together on Pag. 10

UPS Era Plus 1.200 Rack Mount Together on Pag. 11

UPS Era Plus 600-800-950-1.200-1.600 Together on Pag. 12

UPS Era Plus 2.100-2.600 Together on Pag. 14

UPS Era Plus Active 1.200-1.600 Together on Pag. 16

Line Interactive Sinewave (VI)

UPS Exa Plus 1.100-1.600-2.100 Together on Pag. 17

UPS Exa Plus 3.000-4.500 Together on Pag. 18

On Line (VFI)

UPS Evo DSP Plus 1.20 0-2.400-3.600-5.500 PF 0,9 Together on Pag. 20

UPS Evo DSP Plus 1.200-2.400-3.600 Rack Tower PF 0,9 Pag. 22

UPS Evo DSP Plus 6.0-10.0 PF 1 Together on NEW Pag. 24

UPS Evo DSP Plus 6.0-10.0 Rack Mount PF 1 Together on NEW Pag. 26

UPS Evo DSP Plus Modular 20.0-300.0 400 Vac PF 1 Together on Pag. 28

UPS Evo DSP Plus Modular 20.0-140.0 208 Vac PF 1 Together on NEW Pag. 30

UPS Evo DSP Plus Modular 70.0-700.0 480 Vac PF 1 Together on NEW Pag. 32

UPS Evo DSP Plus TM 10.0-20.0 PF 1 Together on NEW Pag. 34

UPS Evo DSP Plus TT 10.0-20.0-30.0 PF 1 Together on NEW Pag. 36

UPS Evo DSP Plus TT 40.0-60.0 PF 1 Together on NEW Pag. 38

UPS Evo DSP Plus TT 80.0-100.0-120.0-160.0-200.0-240.0-300.0 PF 1 Together on NEW Pag. 40

UPS Evo DSP Plus TT 10-20 208 Vac PF 1 Together on NEW Pag. 42

UPS Evo DSP Plus TT 30-40 208 Vac PF 1 Together on NEW Pag. 43

UPS Accessories

ATS (A utomatic Transfer Switch) 16-30A Page 44

Power Battery 12V 5Ah-7.2Ah-9Ah-54W NEW Pag. 45

Software and communication interfaces

Page 46

Stabilizers

Stabilizers Power Reg 1.000 Together on Page 48

Stabilizers Power Reg 2.000-3.000 Together on Pag 49

Single-Phase stabilizers with electronic control 4.5-18 Together on Page 50

Three-Phase stabilizers with electronic control 15-100 Together on NEW Page 51

Bidirectional Single-Phase stabilizers with electronic control 7.5-10 Together on NEW Page 52

Generator

Silent Inverter Generator 2.200 Together on Page 53

Gasoline Generator 3.200-4.200-7.800-9.200 NEW Page 54

Generator Accessories

Gasoline Generator ATS 45A Page 55

Inverter

ATA Solar Inverter 1.200-3.500-5.500 Page 56

Together on

People protecting the Planet Together

Help us to help the environment!

Tecnoware has always been a company sensitive to environmental issues. On the 22nd April 2019, World Earth Day, we created a new corporate philosophy called "Together On". An ideal that translates into a concrete path to make our reality a 100% Green Company. ISO 14001 Certification, Green Energy, Eco-sustainable products and Packaging, Sustainable Development projects are just some of the objectives achieved.

Together On products, we turn on our focus to efficiency and sustainability

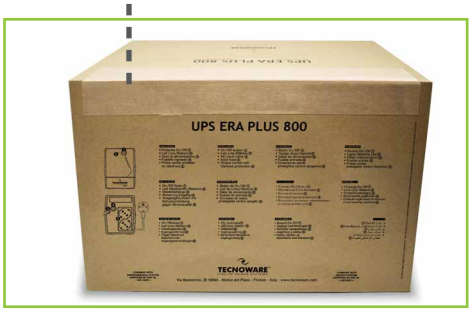
The Together On products are designed and developed with the aim of minimizing environmental impact as much as possible, improving energy efficiency, and investing in the sustainability of the production process.

• ECO-FRIENDLY PACKAGING AND COMMUNICATION:

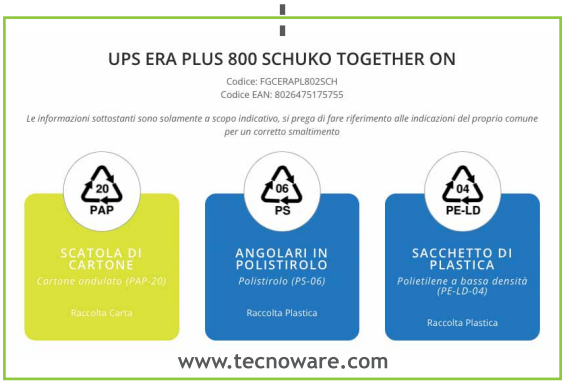
The care for the environment is an integral part for the choice of our packaging as well as the sensitivity in leading our users towards the proper waste disposal for both products and packaging.

Cardboard product box

Paper tape closing



Instructions with symbols for the proper disposal of each material



QR CODE label which redirect to the site

Eco Tips and suggestions on the correct disposal of waste, contained within the packaging of each product

• WEB SITE:

Our commitment to a "Green" approach is showcased on our website through a dedicated section featuring stories about Together On branded projects and products, as well as tips and advice on how "To be eco-friendly" at Home, in the Office, or while Traveling.

To be eco-friendly a Casa

To be eco-friendly in Ufficio

To be eco-friendly in Viaggio

• CERTIFICATIONS:

To be a Green Oriented company means committing to concretely reduce the production processes, storage and marketing of products impact and using clean energy sources. For this reason Tecnoware has received the 14001 Certification and uses only certified Green Energy.

RePower electricity
2021 origin Certificate

RePower electricity
2022 origin Certificate

RePower electricity
2023 origin Certificate

We are engaged in telling and sharing Projects and Initiatives that allows our Company to be Green-Oriented. Concrete actions, discussion opportunities, situations to be shared along a virtuous way in protecting and safeguarding environment direction.

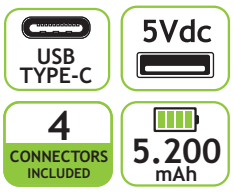
NEW

UPS DC

UPS ERA PLUS DC

USB 5VDC 2A, USB-C OUTPUT 5V / 9V / 12V / 15V / 20V

Together on



1 On/off button 2 Battery mode indicator 3 Line mode indicator 4 USB Type-A 5V/2A Output 5 USB Type-C QC/PD Output 6 AC Input

Main Specifications

- For powering devices such as WiFis, Routers, Modems, VOIP, cameras and charging Tablets, SmartPhones, Bluetooth headseats, Smartwatches, ecc
- 5.200 mAh Lithium-ion batteries
- Included 4 connectors: compatibility with most devices
- DC 12V 100cm output cable for connection to modem/router
- Overload and Short circuit protection
- Overvoltage protection
- Temperature control inside

Specifications

UPS Model	ERA PLUS DC - USB 5VDC 2A, USB-C OUTPUT 5V/9V/12V/15V/20V
Code	**FGCERAPLDC253C**
Nominal Power	25 W Max
Technology	Switching with Lithium-ion batteries
Cooling	Natural
Audible noise	< 40 dBA at 1 m
Input connections	2 PIN Italy plug AC Input cable
Output connections	USB Type-C - USB Type-A
Dimensions (UPS) WxHxD	7,6x3,2x9,3cm
Dimensions (with packing) WxHxD	9,3x4,2x13,5xcm
Weight	0,5 Kg
Included	AC Input cable -100cm length - USB Type-C to 5,5x2,5mm connector - 12V 3 connectors (3,5x1,35mm - 4,8x1,7mm - 5,5x2,1mm)
Input	
Nominal voltage	Single-phase 230Vac
Input voltage range	110-240Vac
Nominal frequency	50/60 Hz
Output	
USB Type-A port	5V/2A
USB Type-C port	5V/5A - 9V/2,77A - 12V/2,08A - 15V/1,66A - 20V/1,25A
Overload capability	< 130%
Transfer time	0 ms
Battery	
Type	ICR 18650 - 3.7Vdc - 2.600 mAh x2
Capacity	3.7Vdc - 5.200 mAh - 20Wh
Backup time (typical)	240 min
Environmental specification	
Working temperature	From 0 to 45 °C (recommended from 20 to 25 °C)
Humidity	< 95% without condensation
Maximum altitude	3000 m
IP protection	IP20
Certifications	CE

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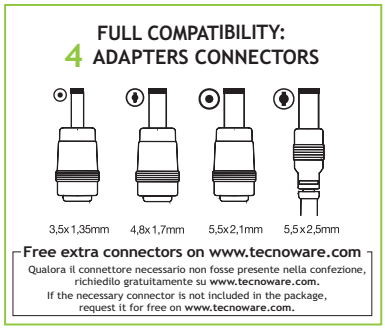
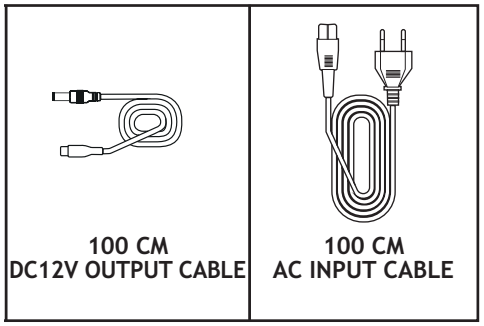
Easily replaceable batteries

Included





High Italian Quality

TECNOWARE®

RoHS COMPLIANT CE

UPS ERA PLUS DC

9VDC/12VDC - POE 24VDC/48VDC - USB 5VDC

Together on

24V - 48V POE

10 CONNECTORS INCLUDED

8.800 mAh

1 Line/Battery mode indicator 2 On/off button 3 12Vdc output indicator 4 9Vdc output indicator 5 Battery Level indicator 6 5Vdc 1A USB Charger 7 24Vdc/48Vdc POE Output selector 8 LAN Input 9 LAN and POE Output 10 POE Reset 11 9Vdc/12Vdc DC Output 12 9Vdc/12Vdc DC Output selector 13 AC Input

Main Specifications

- For powering devices such as WiFis, Routers, Modems, VOIP, cameras and charging Tablets, SmartPhones, Bluetooth headseats, Smartwatches, ecc.
- 8.800 mAh Lithium-ion batteries
- POE function: for additional power supply on the LAN cable
- Included 10 connectors: compatibility with most devices
- Overload and Short circuit protection
- Overvoltage protection
- Temperature control inside

Specifications

UPS Model	ERA PLUS DC 9VDC/12VDC - POE 24VDC/48VDC - USB 5VDC
Code	**FGCERAPLDC252**
Nominal Power	25 W Max
Technology	Switching with Lithium-ion batteries
Cooling	Natural
Audible noise	< 40 dBA at 1 m
Input connections	2 PIN Italy plug AC Input cable
Output connections	DC 5,5x2,5 mm - RJ45 - USB
Dimension (UPS) WxHxD	16x2,8x10,5cm
Dimension (with packing) WxHxD	17x3,5x14xcm
Weight	0,5 Kg
Included	AC Input cable - DC output cable with 5,5x2,5 mm 2 connectors - 8 connectors
Input	
Nominal voltage	Single-phase 230Vac
Input voltage range	110-240Vac
Nominal frequency	50/60 Hz
Output	
POE ports	24Vdc/48Vdc (selectable) 0.6A max, +Pin 4/5, -Pin 7/8
USB port	5Vdc -1A max
DC Output	9Vdc/12Vdc (selectable) 2A max
Overload capability	< 130%
Transfer time	0 ms
Battery	
Type	Lithium Polymer transportable by plane (33Wh)
Backup time (typical)	240 min
Environmental specification	
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)
Humidity	< 95% without condensation
Maximum altitude	3000 m
IP protection	IP20
Certifications	CE

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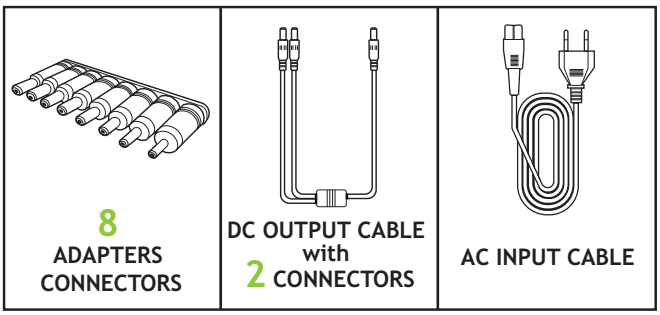

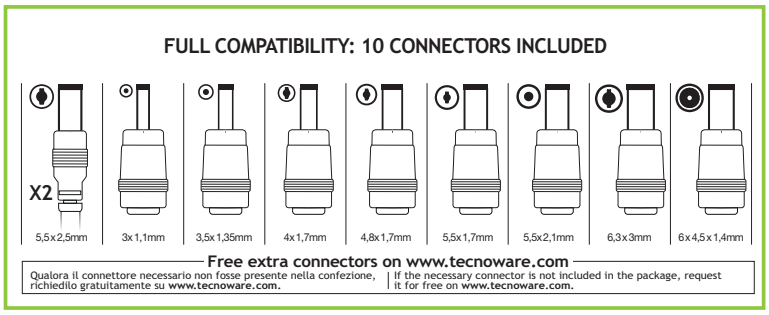

High Italian Quality

TECNOWARE®

RoHS COMPLIANT CE

LINE INTERACTIVE

UPS ERA PLUS STRIP
1.000

Together on

230 Vac

8 outlets
TO PROTECT ALL YOUR DEVICES

1 On/Off switch 2 Power cable 3 Input thermal protection 4 Output sockets with child protection and blackout protection 5 Filtered output socket with child protetiction 6 5Vdc 2.1A USB Charger 7 USB Port 8 RJ11/45 Port

Main Specifications

- Personal Computer, Modem/Router, Cash Register, Pos
- Automatic Voltage Regulation circuit (AVR)
- USB Charger (5V 2.1A) port
- Easy replacement batteries
- Rear slots for wall mounting
- Output sockets with child protection for blackout protection
- Output sockets with child protection for overvoltage protection
- USB port
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

CASH REGISTER

OFFICE

Specifications

UPS Model	ERA PLUS STRIP 1.000	ERA PLUS STRIP 1.000 UK
Code	FGCERAPLS1002SCH	FGCERAPLS1002UK
Max Computer Power*	1.000VA/700W	
Technology	Line Interactive with stabilizer	
Cooling	Natural	
Audible noise	< 40 dBA to 1 m	
Input connection	Fixed cable with Schuko plug	Fixed cable with UK plug
Outlets	4 UPS outputs Schuko/Italian + 4 only filtered outputs Schuko/Italian	4 UPS outputs UK + 4 only filtered outputs UK
Dimension (UPS) WxHxD	20x10x34,5 cm	
Dimension (with packing) WxHxD	26,9x14,6x42,5 cm	
Weight	4,4 Kg	
Input		
Number of phases	1Ph+N	
Nominal voltage	Single-phase 230Vac	
Input voltage range	+20%/-25%	
Nominal frequency	50/60 Hz (automatic selection)	
Input frequency range	+/-5%	
Output		
Number of phases	1Ph+N	
Nominal voltage	Single-phase 230Vac	
Voltage regulation (Line mode)	AVR (Automatic Voltage Regulation)	
Voltage regulation (Battery mode)	+/-5%	
Frequency	50/60 Hz (automatic selection)	
Inverter waveform	Modified sinewave	
Overload capability	< 130%	
Transfer time	2 ms (typical)	
Battery		
Type	Lead acid, sealed, maintenance free	
Backup time (typical)	10-40 min	
Environmental specification		
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	

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* This UPS is designed and sized for the protection of IT workstations. The power expressed as "Max Computer Power" corresponds to the sum of the Plate Powers, of the Switching Power Supplies present in the IT Stations to be protected. For any use with devices other than IT workstations, it is advisable to seek specific advice from the manufacturer

Available on request with input/output nominal voltage 110Vac or 120Vac and with input plug and output sockets for specific country.

Alta Qualità Italiana

TECNOManager UPS Management Software

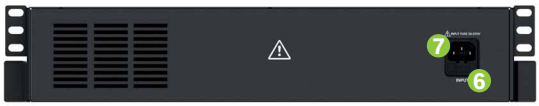
TECNOWARE®

RoHS COMPLIANT CE

LINE INTERACTIVE

UPS ERA PLUS RM
1.200

Together on



1 On/Off button 2 LCD Display 3 USB port 4 Line protection Telephone/Modem/Lan RJ11/RJ45 5 Output sockets with blackout protection
6 Input fuse 7 Input socket

Main Specifications

- For Small server, Local Area Networks (LAN), Switch, HUB, Firewall, Video Surveillance Systems
- Automatic Voltage Regulation circuit (AVR)
- Output sockets with blackout protection
- USB Port
- Mounting in Rack cabinet 19”
- UPS Management TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

Specifications

UPS Model	ERA PLUS 1.200 RACK MOUNT
Code	**FGCERAPL1202RSCH**
Max Computer Power*	1.200VA/840W
Technology	Line Interactive with stabilizer
Cooling	Natural
Audible noise	< 40 dBA to 1 m
Dimension UPS WxHxD	43,8x8,8x23 cm (2U)
Dimension with packing WxHxD	52x19,5x40,5 cm
Weight	6,5 Kg
Input	
Number of phases	1Ph+N
Nominal voltage	Single-phase 230Vac
Input voltage range	+20%/-25%
Nominal frequency	50/60 Hz (automatic selection)
Input frequency range	+/-5%
Output	
Number of phases	1Ph+N
Nominal voltage	Single-phase 230Vac
Voltage regulation (Line mode)	AVR (Automatic Voltage Regulation)
Voltage regulation (Battery mode)	+/-5%
Frequency	50/60 Hz (automatic selection)
Inverter waveform	Modified sinewave
Overload capability	< 130%
Transfer time	2 ms (typical)
Battery	
Type	Lead acid, sealed, maintenance free
Backup time (typical)	10-40 min
Environmental specification	
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)
Humidity	< 95% without condensation
Maximum altitude	3000 m
IP protection	IP20
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)

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Available on request with input/output nominal voltage 110Vac or 120Vac and with input plug and output sockets for specific country.

Alta Qualità Italiana

TECNOManager UPS Management Software

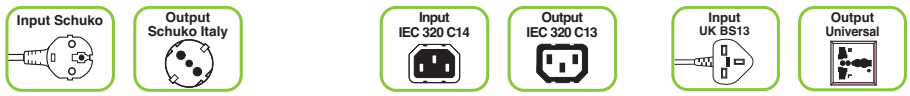
TECNOWARE®

RoHS COMPLIANT CE

UPS ERA PLUS
600-800-950-1.200-1.600

Together on

230 Vac



1 On/off switch 2 LED Line/Battery/Fault 3 Power cable 4 Input socket 5 Input thermal protection 6 Output sockets with child protection and blackout protection 7 Output sockets with blackout protection 8 USB Port (only for Era Plus 1.200 and Era Plus 1.600)

Main Specifications

- Personal Computer, Modem, Local Area Networks, Video Surveillance Systems
- Automatic Voltage Regulation circuit (AVR)
- Output sockets with child protection for blackout protection
- Output sockets with child protection for overvoltage protection
- USB Port (only for Era Plus 1.200-1.600)
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

Specifications

UPS Model	ERA PLUS 600	ERA PLUS 800	ERA PLUS 950	ERA PLUS 1.200	ERA PLUS 1.600
Schuko version code	**FGCERAPL602SCH**	**FGCERAPL802SCH**	**FGCERAPL952SCH**	**FGCERAPL1202SCH**	**FGCERAPL1602SCH**
IEC version code	**FGCERAPL602IEC**	**FGCERAPL802IEC**	**FGCERAPL952IEC**	**FGCERAPL1202IEC**	**FGCERAPL1602IEC**
Universal version code	**FGCERAPL602UNI**	**FGCERAPL802UNI**	**FGCERAPL952UNI**	**FGCERAPL1202UNI**	**FGCERAPL1602UNI**
Max Computer Power*	600VA/420W	800VA/560W	950VA/665W	1.200VA/840W	1.600VA/1.120W
Technology	Line Interactive with stabilizer				
Interface	-			USB Port	
Cooling	Natural				
Audible noise	< 40 dBA to 1 m				
Dimension (UPS) WxHxD	10,1x14,2x27,9 cm				
Dimension (with packing) WxHxD	18x22x34cm				
Weight	3,7 Kg	3,9 Kg	4,2 Kg	4,5 Kg	5 Kg
Input					
Number of phases	1Ph+N				
Nominal voltage	Single-phase 230Vac				
Input voltage range	+20%/-25%				
Nominal frequency	50/60 Hz (automatic selection)				
Input frequency range	+/-5%				
Output					
Number of phases	1Ph+N				
Nominal voltage	Single-phase 230Vac				
Voltage regulation (Line mode)	AVR (Automatic Voltage Regulation)				
Voltage regulation (Battery mode)	+/-5%				
Frequency	50/60 Hz (automatic selection)				
Inverter waveform	Modified sinewave				
Overload capability	< 130%				
Transfer time	2 ms (typical)				
Battery					
Type	Lead acid, sealed, maintenance free				
Backup time (typical)	10-40 min				
Environmental specification					
Working temperature	From 0 to 55 °C (recommended from 20 to 25° C)				
Humidity	< 95% without condensation				
Maximum altitude	3000 m				
IP protection	IP20				
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)				

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High Italian Quality

UPS Management Software

TECNOWARE

RoHS COMPLIANT CE

LINE INTERACTIVE

UPS ERA PLUS

600-800-950-1.200-1.600

Together on

115 Vac

1 On/off switch 2 Power cable 3 Input thermal protection 4 Output sockets with child protection and blackout protection 5 Filtered output socket with child protection 6 USB Port (only for Era Plus 1.200 and Era Plus 1.600)

Main Specifications

- Personal Computer, Modem, Local Area Networks, Video Surveillance Systems
- Automatic Voltage Regulation circuit (AVR)
- Output sockets with child protection for blackout protection
- Output sockets with child protection for overvoltage protection
- USB Port (only for Era Plus 1.200-1.600)
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

Specifications

UPS Model	ERA PLUS 600	ERA PLUS 800	ERA PLUS 950	ERA PLUS 1.200	ERA PLUS 1.600
Code	FGCERAPL602NEM	FGCERAPL802NEM	FGCERAPL950NEM	FGCERAPL1202NEM	FGCERAPL1602NEM
Max Computer Power*	600VA/420W	800VA/560W	950VA/665W	1.200 VA/840W	1.600VA/1.120W
Technology	Line Interactive with stabilizer				
Interface	-		USB Port		
Cooling	Natural				
Audible noise	< 40 dBA at 1 m				
Dimension (UPS) WxHxD	10,1x14,2x27,9 cm				
Dimension (with packing) WxHxD	18x22x34cm				
Weight	3,7 Kg	3,9 Kg	4,2 Kg	4,5 Kg	5 Kg
Input					
Number of phases	1Ph+N				
Nominal voltage	Single-phase 120Vac				
Input voltage range	+25%/-30%				
Nominal frequency	50/60 Hz (automatic selection)				
Input frequency range	+/-5Hz				
Output					
Number of phases	1Ph+N				
Nominal voltage	Single-phase 120Vac				
Voltage regulation (Line mode)	AVR (Automatic Voltage Regulation)				
Voltage regulation (Battery mode)	+/-5%				
Frequency	50/60 Hz (automatic selection)				
Inverter waveform	Modified sinewave				
Overload capability	< 130%				
Transfer time	2 ms (typical)				
Battery					
Type	Lead acid, sealed, maintenance free				
Backup time (typical)	10-40 min				
Environmental specification					
Working temperature	From 0 to 55 °C (recommended from 20 to 25° C)				
Humidity	< 95% without condensation				
Maximum altitude	3000 m				
IP protection	IP20				

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High Italian Quality

UPS Management Software

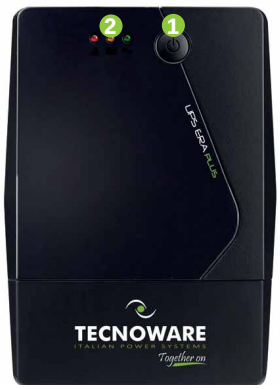
TECNOWARE®

RoHS COMPLIANT CE

UPS ERA PLUS
2.100-2.600

Together on

230 Vac



1 On/off switch 2 LED Line/Battery/Fault 3 Power cable 4 Input socket 5 Input thermal protection 6 Output sockets with blackout protection 7 Output sockets with child protection and blackout protection 8 Filtered output socket 9 Filtered output socket with child protection 10 Telephone line/Modem/Lan RJ11/RJ45 protection 11 USB Port

Main Specifications

- Personal Computer, Modem, Local Area Networks, Video Surveillance Systems
- Automatic Voltage Regulation circuit (AVR)
- Output sockets with child protection for blackout protection
- Output sockets with child protection for overvoltage protection
- USB Port
- Telephone line/Modem/Lan RJ11/RJ45 protection
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

Specifications

UPS Model	ERA PLUS 2.100	ERA PLUS 2.600
IEC version code	FGCERAPL2102IEC	FGCERAPL2602IEC
Universal version code	FGCERAPL2102UNI	FGCERAPL2602UNI
Max Computer Power*	2.100VA/1.470W	2.600VA/1.820W
Technology	Line Interactive with stabilizer	
Interface	USB Port + RJ11/RJ45 Filter	
Cooling	Natural	Fan cooling
Audible noise	< 40 dBA to 1 m	< 45 dBA to 1 m
Dimension (UPS) WxHxD	13x18,2x32 cm	
Dimension (with packing) WxHxD	23,2x27,3x39 cm	
Weight	8,6 Kg	10,4 Kg
Input		
Number of phases	1Ph+N	
Nominal voltage	Single-phase 230Vac	
Input voltage range	+20%/-25%	
Nominal frequency	50/60 Hz (automatic selection)	
Input frequency range	+/-5%	
Output		
Number of phases	1Ph+N	
Nominal voltage	Single-phase 230Vac	
Voltage regulation (Line mode)	AVR (Automatic Voltage Regulation)	
Voltage regulation (Battery mode)	+/-5%	
Frequency	50/60 Hz (automatic selection)	
Inverter waveform	Modified sinewave	
Overload capability	< 130%	
Transfer time	2 ms (typical)	
Battery		
Type	Lead acid, sealed, maintenance free	
Backup time (typical)	10-90 min	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25° C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	

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High Italian Quality

UPS Management Software

TECNOWARE

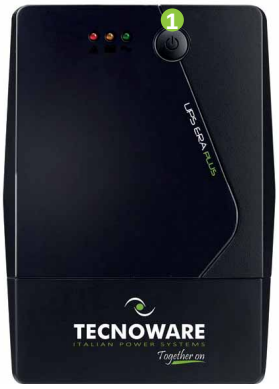
RoHS COMPLIANT CE

LINE INTERACTIVE

UPS ERA PLUS
2.100-2.600

Together on

115 Vac



1 On/off switch 2 Power cable 3 Input thermal protection 4 Output sockets with child protection and blackout protection 5 Filtered output socket with child protection 6 Telephone line/Modem/Lan RJ11/RJ45 protection 7 USB Port

Main Specifications

- Personal Computer, Modem, Local Area Networks, Video Surveillance Systems
- Automatic Voltage Regulation circuit (AVR)
- Output sockets with child protection for blackout protection
- Output sockets with child protection for overvoltage protection
- USB Port
- Telephone line/Modem/Lan RJ11/RJ45 protection
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

Specifications

UPS Model	ERA PLUS 2.100	ERA PLUS 2.600
Code	**FGCERAPL2102NEM**	**FGCERAPL2602NEM**
Max Computer Power*	2.100VA/1.470W	2.600VA/1.820W
Technology	Line Interactive with stabilizer	
Interface	USB Port + RJ11/RJ45 Filter	
Cooling	Natural	Fan cooling
Audible noise	< 40 dBA a 1 m	< 45 dBA a 1 m
Dimension (UPS) WxHxD	13x18,2x32 cm	
Dimension (with packing) WxHxD	23,2x27,3x39 cm	
Weight	8,6 Kg	10,4 Kg
Input		
Number of phases	1Ph+N	
Nominal voltage	Single-phase 120Vac	
Input voltage range	+25%/-30%	
Nominal frequency	50/60 Hz (automatic selection)	
Input frequency range	+/-5Hz	
Output		
Number of phases	1Ph+N	
Nominal voltage	Single-phase 120Vac	
Voltage regulation (Line mode)	AVR (Automatic Voltage Regulation)	
Voltage regulation (Battery mode)	+/-5%	
Frequency	50/60 Hz (automatic selection)	
Inverter waveform	Modified sinewave	
Overload capability	< 130%	
Transfer time	2 ms (typical)	
Battery		
Type	Lead acid, sealed, maintenance free	
Backup time (typical)	10-90 min	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25° C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	

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High Italian Quality

UPS Management Software

TECNOWARE®

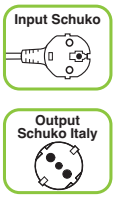
RoHS COMPLIANT CE

UPS ERA PLUS ACTIVE

1.200-1.600

Together on

DESIGNED FOR ACTIVE PFC



1 On/Off button 2 LED Line/Battery/Fault 3 Power cable 4 Protezione termica d'ingresso 5 Output sockets with blackout protection 6 USB Port

Main Specifications

- For Personal Computer, Console Game, Local Area Networks (LAN), Video Surveillance Systems
- Designed for Power Supplies with active PFC
- Automatic Voltage Regulation circuit (AVR)
- Output sockets with child protection for blackout protection
- Output sockets with child protection for overvoltage protection
- USB port
- UPS Management Software compatible with Windows, Mac OS X, Unix, Linux, etc.

Specifications

UPS Model	ERA PLUS ACTIVE 1.200	ERA PLUS ACTIVE 1.600
Code	FGCERAPLAT1202SCH	FGCERAPLAT1602SCH
Max Computer Power*	1.200VA/840W	1.600VA/1.120W
Technology	Line Interactive with stabilizer compatible with Active PFC	
Interface	USB port	
Cooling	Natural	
Audible noise	< 40 dBA at 1 m	
Dimension (UPS) WxHxD	20,7x8,2x22,8cm	
Dimension (with packing) WxHxD	28x12x28,8cm	
Weight	2,7 Kg	3,1 Kg
Input		
Number of phases	1Ph+N	
Nominal voltage	Single-phase 230Vac	
Input voltage range	+20%/-25%	
Nominal frequency	50/60 Hz (automatic selection)	
Input frequency range	+/-5%	
Output		
Number of phases	1Ph+N	
Nominal voltage	Single-phase 230Vac	
Voltage regulation (Line mode)	AVR (Automatic Voltage Regulation)	
Voltage regulation (Battery mode)	+/-5%	
Frequency	50/60 Hz (automatic selection)	
Inverter waveform	Modified sinewave	
Overload capability	< 130%	
Transfer time	2 ms (tipical)	
Battery		
Type	Lead acid, sealed, maintenance free	
Backup time (typical)	10-40 min	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25° C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	

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Available on request with input/output nominal voltage 110Vac or 120Vac and with input plug and output sockets for specific country.

LINE INTERACTIVE
SINEWAVE

UPS EXA PLUS

1100-1600-2100

Together on

Input
IEC 320 C14

Output
IEC 320 C13

Pure Sinewave

SILENT

RECOMMENDED FOR
WORKSTATION
PC GAME
CONSOLE GAME

1 Display LCD 2 On/Off button - Control buttons 3 5V 2.1A USB Charger 4 Output socket with blackout protection 5 Filtered output socket 6 Input socket 7 Input fuse 8 Line protection Telephone/Modem/Lan RJ11/RJ45 9 USB port

Main Specifications

- For Workstation, PC Game, Console Game, Personal Computer, Server, Local Area Networks (LAN), Home Theatre, TV, HI-FI, Fireplace heating systems (excluding Exa PLUS 1.100), Home heating system
- Silent (the fan works only in Battery Mode or boost/buck AVR mode)
- Display with Intelligent Backlighting System
- 2 USB Charger Ports (5V 2.1A)
- Automatic Voltage Regulation circuit (AVR)
- Sinewave output
- Hot Swap battery
- Output sockets with blackout protection
- Output sockets for surge protection
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

Specifications

UPS Model	EXA PLUS 1.100	EXA PLUS 1.600	EXA PLUS 2.100
Code	FGCEXAPL1102IEC	FGCEXAPL1602IEC	FGCEXAPL2102IEC
Max Computer Power*	1.100VA /770W	1.600VA/1.120W	2.100VA/1.470W
Technology	Line Interactive with stabilizer		
LCD Display	UPS status, input/output voltage, input/output frequency, load level, battery capacity, warning or fault error code. (the display backlighting is normally off, switch on only after a key is pressed)		
Cooling	Fan cooling (only in battery mode, charging mode or boost/buck AVR mode)		
Audible noise	< 12 dBA 1m (line mode) < 40 dBA 1m (when the fan is working)	< 12 dBA 1m (line mode) < 45 dBA 1m (when the fan is working)	
Dimension (UPS) WxHxD	9,9x28x28,8 cm	9,9x28x41 cm	
Dimension (with packing) WxHxD	18x37,6x37,3 cm	18x37,6x49,5 cm	
Weight	7,4 Kg	11,8 Kg	13,1Kg
Input			
Number of phases	1Ph+N		
Nominal voltage	Single-phase 230Vac		
Input voltage range	+20%/-25%		
Nominal frequency	50/60 Hz (automatic selection)		
Input frequency range	+/-5%		
Output			
Number of phases	1Ph+N		
Nominal voltage	Single-phase 230Vac		
Voltage regulation (Line mode)	AVR (Automatic Voltage Regulation)		
Voltage regulation (Battery mode)	+/-5%		
Frequency	50/60 Hz (automatic selection)		
Inverter waveform	Sinewave		
Overload capability	< 130%		
Transfer time	2 ms (typical)		
Battery			
Type	Lead acid, sealed, maintenance free		
Backup time (typical)	10-30 min		
Environmental specification			
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)		
Humidity	< 95% without condensation		
Maximum altitude	3000 m		
IP protection	IP20		
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)		

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Available on request with input/output nominal voltage 110Vac or 120Vac and with input plug and output sockets for specific country.

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE®

RoHS COMPLIANT CE

LINE INTERACTIVE
SINEWAVE

UPS EXA PLUS
3.000-4.500

Together on

Pure Sinewave

SILENT
DESIGNED FOR SILENT ENVIRONMENT

Ups Exa Plus 3.000

Input IEC 320 C20 | Output IEC 320 C13

Ups Exa Plus 4.500

Input IEC 320 C20 | Output IEC 320 C13 | Output IEC 320 C19

1 Input socket 2 Input Thermal protection 3 IEC320 C13 output sockets with Blackout protection 4 IEC320 C19 output socket with Blackout protection
5 USB port 6 RS232 port 7 Slot for SNMP, Dry Contact or MODBUS interface 8 EPO connector 9 Connector for additional Battery Box

Main Specifications

For Workstation, PC Game, Personal Computer, Server, Local Area Networks (LAN)

- Designed for silent environment
  the fan works only in Battery Mode or boost/buck AVR mode)
- Display with Intelligent Backlighting System
- Automatic Voltage Regulation circuit (AVR)
- Intelligent slot for SNMP or Dry Contact card or MODBUS
- Sinewave output
- Battery charging system controlled by microprocessor
- Output sockets with blackout and surge protection
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

Specifications

UPS Model	EXA PLUS 3.000	EXA PLUS 4.500
Code	**FGCEXAPL3002IEC**	**FGCEXAPL4502IEC**
Max Computer Power*	3.000VA/2.100W	4.500VA/3.150W
Technology	Line Interactive with stabilizer	
LCD Display	UPS status, input/output voltage, input/output frequency, load level, battery capacity, warning or fault error code. (the display backlighting is normally off, switch on only after a key is pressed)	
Cooling	Fan cooling (only in battery mode, charging mode or boost/buck AVR mode)	
Audible noise	< 45 dBA to 1 m	
Dimension UPS LxHxP	14,5x22x45,5 cm	19x31,8x42,1 cm
Dimension (with packing) LxHxP	23x32,5x54 cm	32x46x56 cm
Weight	19,7 Kg	29 Kg
Input		
Number of phases	1Ph+N	
Nominal voltage	208Vac/220Vac/230Vac/240Vac	
Input voltage range	162-290Vac	
Nominal frequency	50/60 Hz (selectable)	
Output		
Number of phases	1F+N	
Nominal voltage	208Vac/220Vac/230Vac/240Vac (selectable)	
Static voltage Regulation at %100 linear load (On-Line and battery mode)	±1,5%	
Voltage THD at rated linear load	<2% (linear load), <5% (non-linear load)	
Crest factor	3:1	
Frequency	50/60 Hz (selectable)	
Inverter waveform	Sinewave	
Overload capability	< 130%	
Transfer time	2 ms (typical)	
Battery		
Type	Lead acid, sealed, maintenance free	
Backup time (typical)	10-30 min	
Extended autonomy	-	External Battery Box (optional)
Environmental specification		
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	

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Accessories

Model	Code
Bypass Box for UPS RT from 3 KVA to 4.5 KVA	FGCBYPIEC
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4

Model	Code
SNMP Internal Interface	FGCNETAG7
ModBus RS485 Interface	FGCMODBUS

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE®

RoHS COMPLIANT CE

UPS EXA PLUS
BATTERY BOX

Together on

1 Connector for the UPS Battery Box connection 2 Extra Battery Box connector 3 Power socket for the battery charger circuit
4 Thermal Fuse protecting the battery charger circuit 5 Thermal switch for battery circuit

Main Specifications

- Internal battery charger on every unit
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Convertible format (Tower or Rack 19")

Specifications

Model	BATTERY BOX FOR EXA PLUS 4.500	
Code	FBBEDP3602RT/09	FBBEDP3602RT/18
Positioning	Into Tower or 19" Rack cabinet (2U) positioning	
Dimension (Box) WxHxD	43,8x8,8x63 cm	
Dimension (with packing) WxHxD	60x24x75 cm	
Weight	30 Kg	43 Kg
Battery		
Type	Lead acid, sealed, maintenance free	
Internal Battery Charger		
Nominal input voltage	230Vac	
Nominal input frequency	50/60Hz	
Nominal charging voltage	82,2Vdc	
Max charging current	1A	
Protection		
Battery charge input	Thermal fuse	
Battery circuit	Magnetothermic switch	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE	

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ON LINE

UPS EVO DSP PLUS PF 0,9

1.200-2.400-3.600-5.500

Together on

Ups Evo DSP Plus 1.200 PF 0,9

Input IEC 320 C14 | Output IEC 320 C13

Ups Evo DSP Plus 2.400 PF 0,9

Input IEC 320 C14 | Output IEC 320 C13

Ups Evo DSP Plus 3.600 PF 0,9

Input IEC 320 C20 | Output IEC 320 C13 | Output Terminal Block

Ups Evo DSP Plus 5.500 PF 0,9

1 Input connection 2 Input Thermal protection 3 IEC320 C13 output sockets with Blackout protection
4 Output Terminal block with Blackout protection 5 USB port 6 RS232 port 7 Slot for SNMP, Dry Contact or MODBUS interface (for EVO DSP Plus 5.5 PF 0,9 to replace USB e RS232) 8 EPO connector 9 Connector for additional Battery Box
10 Switch mains input 11 Input/output terminal block

POWER FACTOR 0,9

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power Factor 0,9
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by micro processor
- Intelligent slot for SNMP or Dry Contact card or MODBUS
- Static Bypass
- High efficiency and low operating cost
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

UPS Model	EVO DSP PLUS 1.200 PF 0,9	EVO DSP PLUS 2.400 PF 0,9	EVO DSP PLUS 3.600 PF 0,9	EVO DSP PLUS 5.500 PF 0,9
Code	**FGCEDP1202IEC**	**FGCEDP2402IEC**	**FGCEDP3602IEC**	**FGCEDP5502MM**
Nominal Power	1.200 VA	2.400 VA	3.600 VA	5.5 KVA
Active Power	1.080 W	2.160 W	3.240 W	4.950 W
Power factor	0,9			
Technology	On-Line Double Conversion transformerless (VFI-SS-111)			
Cooling	Cooling fan			
Audible noise	< 45 dBA to 1 m			< 48 dBA a 1 m
Dimension UPS LxHxP	14,5x22x28,2 cm	14,5x22x39,7 cm	19x31,8x42,1 cm	19x57,3x36,9 cm
Dimension (with packing) LxHxP	23x33x37 cm	23x33x48 cm	33x46x56 cm	33x83,5x50,5 cm
Weight	10 Kg	17 Kg	27 Kg	46 Kg
Input				
Number of phases	1Ph+N			
Nominal voltage	208Vac/220Vac/230Vac/240Vac			
Input voltage range	110-300Vac			176Vac-300Vac from 50% to 100% load, 110Vac-300Vac up to 50% load
Nominal frequency	50/60 Hz (selectable)			
Input frequency range (On-Line mode)	+/- 7%			
Input power factor	0,99			
Output				
Number of phases	1Ph+N			
Nominal voltage	208Vac/220Vac/230Vac/240Vac (selectable)			
Static voltage Regulation at %100 linear load (On-Line and battery mode)	±1%			
Voltage THD at rated linear load	<2% (linear load) <8% (non-linear load)			<3%(linear load), <5% (non-linear load)
Crest factor	5:1			3:1
Frequency	50/60 Hz (selectable)			
Free running frequency	±0,2 Hz			±0,1 Hz
Inverter waveform	Sinewave			
Overload capability (on-line mode)	110% only audible warning, 110-130% for 30 s, >130% for 100 ms			110% for 30 minutes, 130% for 5 minutes, >130% for 10
Overload capability (battery mode)	110% only audible warning, 110-130% for 30 s, >130% for 100 ms			110% for 3 minutes, 130% for 30 seconds, >130% for 10 seconds
Efficiency	94%, calculated in double conversion metod 100% load according to standard 62040-3			
Transfer time	0 ms (On-Line)			
Battery				
Type	Lead acid, sealed, maintenance free			
Extended autonomy	-		External Battery Box (optional)	-
Environmental specification				
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)			

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Accessories

Model	Code
Bypass Box for UPS from 1.2 KVA to 3.6 KVA	FGCBYPIEC
Bypass Box for UPS from 5.5 KVA	FGCBYP10MM2
Dry Contact DB9 Interface	FGCEVODSDRY3

Model	Code
Dry Contact 9 PIN Interface	FGCEVODSDRY4
SNMP Internal Interface	FGCNETAG7
ModBus RS485 Interface	FGCMODBUS

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE®

RoHS COMPLIANT CE

UPS EVO DSP PLUS
BATTERY BOX

Together on

1 Connector for the UPS Battery Box connection 2 Extra Battery Box connector 3 Power socket for the battery charger circuit
4 Thermal Fuse protecting the battery charger circuit 5 Thermal switch for battery circuit

Main Specifications

- Internal battery charger on every unit
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Convertible format (Tower or Rack 19")

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS 3.600	
Code	FBBEDP3602RT/09	FBBEDP3602RT/18
Positioning	Into Tower or 19" Rack cabinet (2U) positioning	
Dimension (Box) WxHxD	43,8x8,8x63 cm	
Dimension (with packing) WxHxD	60x24x75 cm	
Weight	30 Kg	43 Kg
Battery		
Type	Lead acid, sealed, maintenance free	
Internal Battery Charger		
Nominal input voltage	230Vac	
Nominal input frequency	50/60Hz	
Nominal charging voltage	82,2Vdc	
Max charging current	1A	
Protection		
Battery charge input	Thermal fuse	
Battery circuit	Magnetothermic switch	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE	

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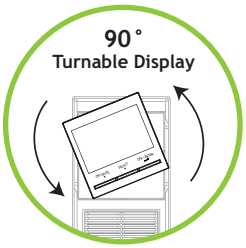
ON LINE

UPS EVO DSP PLUS RT PF 0,9

1.200-2.400-3.600

Together on



POWER FACTOR 0,9

Input IEC 320 C14 | Output IEC 320 C13

Ups Evo DSP PLUS 1.200 Rack Tower PF 0,9

Input IEC 320 C14 | Output IEC 320 C13

Ups Evo DSP MM 2.400 Rack Tower PF 0,9

Input IEC 320 C20 | Output IEC 320 C13 | Output IEC 320 C19

Ups Evo DSP MM 3.600 Rack Tower PF 0,9

1 Input socket 2 Input Thermal protection 3 IEC320 C13 output sockets with Blackout protection 4 IEC320 C19 output socket with Blackout protection
5 USB port 6 RS232 port 7 Slot for SNMP, Dry Contact or MODBUS interface 8 EPO connector 9 Connector for additional Battery Box

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Convertible format (Tower or Rack 19") with adjustable display
- Power Factor 0,9
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Hot Swap Battery
- Static Bypass
- Intelligent slot for SNMP or Dry Contact card or MODBUS
- High efficiency and low operating cost
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

UPS Model	EVO DSP PLUS 1.200 RACK TOWER PF 0,9	EVO DSP PLUS 2.400 RACK TOWER PF 0,9	EVO DSP PLUS 3.600 RACK TOWER PF 0,9
Code	**FGCEDP1202RTIEC**	**FGCEDP2402RTIEC**	**FGCEDP3602RTIEC**
Nominal Power	1.200 VA	2.400 VA	3.600 VA
Active power	1.080 W	2.160 W	3.240 W
Power factor	0,9		
Technology	On-Line Double Conversion transformerless (VFI-SS-111)		
Cooling	Fan cooling		
Audible noise	< 45 dBA to 1 m		
Positioning	Tower positioning or Into 19" rack (2U)		
Dimension UPS LxHxP	43,8x8,8x31 cm	43,8x8,8x41 cm	43,8x8,8x63 cm
Dimension (with packing) LxHxP	50x18x40 cm	56x18x50 cm	76x20x60 cm
Weight	12 Kg	19 Kg	29 Kg
Input			
Number of phases	1Ph+N		
Nominal voltage	208Vac/220Vac/230Vac/240Vac		
Input voltage range	110-300Vac		
Nominal frequency	50/60 Hz (selectable)		
Input frequency range (On-Line mode)	+/- 7%		
Input power factor	0,99		
Output			
Number of phases	1Ph+N		
Nominal voltage	208Vac/220Vac/230Vac/240Vac (selectable)		
Static voltage Regulation at %100 linear load (On-Line and battery mode)	±1%		
Voltage THD at rated linear load	<2% (linear load), <8% (non-linear load)		
Crest factor	3:1		
Frequency	50/60 Hz (selectable)		
Free running frequency	±0,2 Hz		
Inverter waveform	Sinewave		
Overload capability	110% only audible warning, 110-130% for 30 sec, >130% for 100 ms		
Efficiency	94%, calculated in double conversion metod 100% load according to standard 62040-3		
Transfer time	0 ms (On-Line)		
Battery			
Type	Lead acid, sealed, maintenance free		
Backup time (Typical)	10-30 min		
Extended autonomy	-		External Battery Box (optional)
Environmental specification			
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)		
Humidity	< 95% without condensation		
Maximum altitude	3000 m		
IP protection	IP20		
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)		

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Accessories

Model	Code
Bypass Box for UPS RT from 1.2 KVA to 3.6 KVA	FGCBYPIEC
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4

Model	Code
SNMP Internal Interface	FGCNETAG7
ModBus RS485 Interface	FGCMODBUS
Kit 2 shelves for UPS Rack Installation	FGCKITEVORT

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE®

RoHS COMPLIANT CE

UPS EVO DSP PLUS RT PF 0,9
BATTERY BOX

Together on

1 Connector for the UPS Battery Box connection 2 Extra Battery Box connector 3 Power socket for the battery charger circuit
4 Thermal Fuse protecting the battery charger circuit 5 Thermal switch for battery circuit

Main Specifications

- Internal battery charger on every unit
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Convertible format (Tower or Rack 19")

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS 3.600 RACK TOWER PF 0,9	
Code	**FBBEDP3602RT/09**	**FBBEDP3602RT/18**
Positioning	Into Tower or 19" Rack cabinet (2U) positioning	
Dimension (Box) WxHxD	43,8x8,8x63 cm	
Dimension (with packing) WxHxD	60x24x75 cm	
Weight	30 Kg	43 Kg
Battery		
Type	Lead acid, sealed, maintenance free	
Internal Battery Charger		
Nominal input voltage	230Vac	
Nominal input frequency	50/60Hz	
Nominal charging voltage	82,2Vdc	
Max charging current	1A	
Protection		
Battery charge input	Thermal fuse	
Battery circuit	Magnetothermic switch	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE	

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NEW

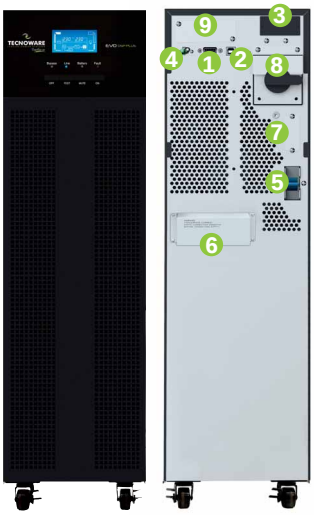
ON LINE

UPS EVO DSP PLUS PF 1

6 -10

Together on

POWER FACTOR 1



Ups Evo DSP Plus 6.0-10.0 PF 1

1 RS232 port 2 USB port 3 Slot for SNMP interface, Dry Contact or MODBUS 4 EPO connector 5 Switch mains input 6 Input/output terminal block 7 Connector for external Battery Box 8 Manual bypass switch for maintenance 9 Interface for parallel connection

Main Specifications

- Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Rectifier realized by IGBT technology
- Compatible with generators
- Battery charging system controlled by microprocessor
- Extension Back-up time by external Battery box
- Static and Manual Bypass
- Expandable up to 2 units in parallel
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

Modello UPS	EVO DSP PLUS 6.0 PF 1				EVO DSP PLUS 10.0 PF 1			
Codice	FGCEDP6MM2/00	FGCEDP6MM2/C	FGCEDP6MM2/D	FGCEDP6MM2/E	FGCEDP10MM2/00	FGCEDP10MM2/C	FGCEDP10MM2/D	FGCEDP10MM2/E
Nominal power	6 KVA				10 KVA			
Active power	6 KW				10 KW			
Power factor	1							
Technology	On-Line Double Conversion transformerless (VFI-SS-111)							
Cooling	Fan cooling							
Audible noise	< 55 dBA to 1 m				< 58 dBA to 1 m			
Dimension (UPS) WxHxD	19x68,8x36,9 cm				19x68,8x44,2 cm			
Dimension (with packing) WxHxD	32x92,2x51,4 cm				32x92,2x58,7 cm			
Weight	18 Kg	57 Kg	62 Kg	65 Kg	23 Kg	62 Kg	67 Kg	70 Kg
Input								
Number of phases	1Ph+N							
Nominal voltage	208Vac/220Vac/230Vac/240Vac							
Input voltage range	176Vac-300Vac from 50% to the 100% of loading, 110Vac-300Vac up to 50% load							
Nominal frequency	50/60 Hz (selectable)							
Input frequency range (On-Line mode)	±7%							
Input power factor	0,99							
Output								
Number of phases	1Ph+N							
Nominal voltage	208Vac/220Vac/230Vac/240Vac							
Voltage Regulation at %100 linear load (On-Line and Battery mode)	±2%							
Voltage THD at rated linear load	<3% (linear load), <5% (non-linear load)							
Crest factor	3:1							
Frequency	50/60 Hz (selectable)							
Frequency stability	±0,1 Hz							
Inverter waveform	Sinewave							
Overload capability (Line mode)	110% for 30 minutes, 130% for 5 minutes, >130% for 10 seconds							
Overload capability (Battery mode)	110% for 3 minutes, 130% for 30 seconds, >130% for 10 seconds							
Efficiency	94%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3							
Transfer time	0 ms (On-Line)							
Battery								
Type	Lead acid, sealed, maintenance free							
Installed inside	-	16 elements			-	16 elements		
Extended autonomy	External Battery Box (optional)							
Environmental specification								
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)							
Humidity	< 95% without condensation							
Maximum altitude	3000 m							
IP protection	IP20							
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)							

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Accessories

Model	Code
Bypass Box for Evo Dsp Plus 6.0 and 10.0	FGCBYP10MM2
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4

Model	Code
SNMP for Evo Dsp Plus MM	FGCNETAG7
ModBus RS485 Interface	FGCMODBUS

High Italian Quality

TECNOManager UPS Management Software

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RoHS COMPLIANT CE

UPS EVO DSP PLUS PF 1
BATTERY BOX

Together on

1 Thermal Fuse protecting the battery charger circuit 2 Power Socket for the battery charger circuit 3 Thermal switch for battery circuit
4 Connector for the UPS connection 5 Extra Battery Box connector

Main Specifications

- Internal battery charger on every unit
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Reduced dimensions
- Easy installation and maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS 6.0-10.0 PF 1												
Code	FBBEVDP192A/00	FBBEVDP192A/07	FBBEVDP192A/14	FBBEVDP192A/21	FBBEVDP192A/28	FBBEVDP192A/09	FBBEVDP192A/18	FBBEVDP192A/27	FBBEVDP192A/36	FBBEVDP192A/11	FBBEVDP192A/22	FBBEVDP192A/33	FBBEVDP192A/44
Box dimension WxHxD	25 x 83,3 x 80 cm												
Pack dimension WxHxD	38 x 105,8 x 96,5 cm												
Weight	49 Kg	81,4 Kg	107,8 Kg	134,2 Kg	160,6 kg	90,5 kg	126 kg	161,5 Kg	197,1 Kg	98,2 Kg	141,4 Kg	184,6 Kg	227,8 Kg
Battery													
Type	Lead acid, sealed, maintenance free												
Internal battery charger													
Nominal input voltage	230Vac												
Nominal input frequency	50/60Hz												
Nominal charging voltage	219,2Vdc												
Max charging current	Selectable	0,7A	1,4A	2,1A	2,8A	0,9A	1,8A	2,7A	3,6A	1,1A	2,2A	3,3A	4,4A
Protection													
Battery charge input	Thermal fuse												
Battery circuit	Magnetothermic switch												
Environmental specification													
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)												
Humidity	< 95% without condensation												
Maximum altitude	3000 m												
IP protection	IP20												
Certifications	CE												

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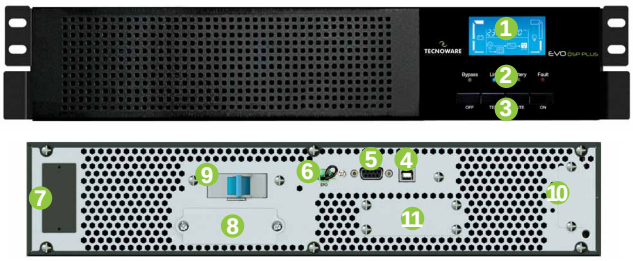
NEW

ON LINE

UPS EVO DSP PLUS RM PF 1
6 -10

Together on

POWER FACTOR 1



UPS Evo DSP Plus RM 6.0-10.0 PF 1

1 LCD display 2 LED status light 3 Multifunction buttons 4 USB port 5 RS232 port 6 EPO connector 7 Slot for SNMP, Dry Contact or MODBUS
8 Input/output Terminal Box 9 Input network switch 10 Battery Box connector 11 Interface for parallel connection

Main Specifications

- For Local Area Network (LAN), Data Centers
- Power factor 1
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Static Bypass
- Expandable up to 2 units in parallel
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

UPS Model	EVO DSP PLUS 6.0 RACK MOUNT PF 1	EVO DSP PLUS 10.0 RACK MOUNT PF 1
Code	**FGCEDP6MM2RM/00**	**FGCEDP10MM2RM/00**
Nominal power	6 KVA	10 KVA
Active power	6 KW	10 KW
Power factor	1	
Technology	On-Line Double Conversion transformerless (VFI-SS-111)	
Cooling	Fan cooling	
Audible noise	< 48 dBA to 1 m	
Dimension (UPS) WxHxD	43.8x8.8x51.5 (2U)	
Dimension (with packing) WxHxD	59x22x71 cm	
Weight	11 Kg	13 Kg
Equipped with	1 serial cable, Tecnomanager software and 2 metal handle for 19" Rack cabinet mounting	
Input		
Number of phases	1Ph+N	
Nominal voltage	208Vac/220Vac/230Vac/240Vac	
Input voltage range	176Vac-300Vac from 50% to 100% load, 110Vac-300Vac from to 50% load	
Nominal frequency	50/60 Hz (selectable)	
Input frequency range On-Line mode	±7%	
Input power factor	0,99	
Output		
Number of phases	1Ph+N	
Nominal voltage	208Vac/220Vac/230Vac/240Vac	
Voltage Regulation at %100 linear load (On-Line and Battery mode)	±1%	
Voltage THD	<3% (linear load), <6% (non-linear load)	
Crest factor	3:1	
Frequency	50/60 Hz (selectable)	
Frequency stability	±0,1 Hz	
Inverter waveform	Sinewave	
Overload capability (Line mode)	110% for 10 minutes, 130% for 1 minute, >130% for 1 second	
Overload capability (Battery mode)	110% for 30 seconds, 130% for 10 seconds, >130% for 1 second	
Efficiency	94%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3	
Transfer time	0 ms (On-Line)	
Output connections	Terminal block	
Battery (fitted inside the external Battery Box)		
Batteries number	16 (inside the external Battery Box, for UPS operation)	
Battery charge time (typical)	6-8 hours	
Extended autonomy	External Battery Box (optional)	
Environmental specification		
Working temperature	Da 0 a 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	

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Accessories

Model	Code
Bypass Box for Evo Dsp Plus Rack Mount 6.0 and 10.0	FGCBYP10MMRM
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4
SNMP for Ups Evo Dsp Plus	FGCNETAG7
ModBus RS485 Interface	FGCMODBUS
Kit 2 shelves for UPS Rack Installation	FGCKITEVORT

High Italian Quality

TECNOManager UPS Management Software

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RoHS COMPLIANT CE

UPS EVO DSP PLUS RM PF1
BATTERY BOX

Together on

1 Thermal protection for battery charger circuit 2 Power socket for the battery charger circuit 3 Thermal switch for battery circuit
4 Connector for the UPS connection 5 Extra Battery Box connector

Main Specifications

- Internal battery charger on every unit
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Hot Swap batteries
- Rack format 19”, height 3U
- Packaging containing separate Battery Box and Battery Pack

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS 6.0-10.0 RACK MOUNT PF 1			
Code	FBBEVDR192/00	FBBEVDR192/07	FBBEVDR192/09	FBBEVDR192/11
Box dimension WxHxD	43,8 x 13,3 x 66,8 cm (3U)			
Pack dimension WxHxD	59 x 26 x 87,5 cm			
Weight	10 Kg	49 Kg	53 Kg	56 Kg
Battery				
Type	Lead acid, sealed, maintenance free			
Internal battery charger				
Nominal input voltage	230Vac			
Nominal input frequency	50/60Hz			
Nominal voltage	219Vdc			
Max charging current	Selectable	0,7A	0,9A	1,1A
Protection				
Battery charge input	Thermal fuse			
Battery circuit	Magnetothermic switch			
Environmental specification				
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE			

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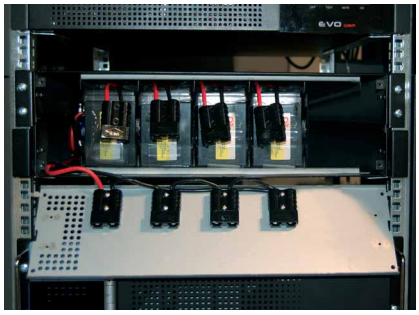
Easy installation

The Battery Box and Battery Pack are supplied separately in the packaging for an easy installation.

So the total weight is divided into several parts, making it easier to install.



A single operator can easily install the Battery Box inside the UPS and then the battery pack.

High Italian Quality

TECNOWARE

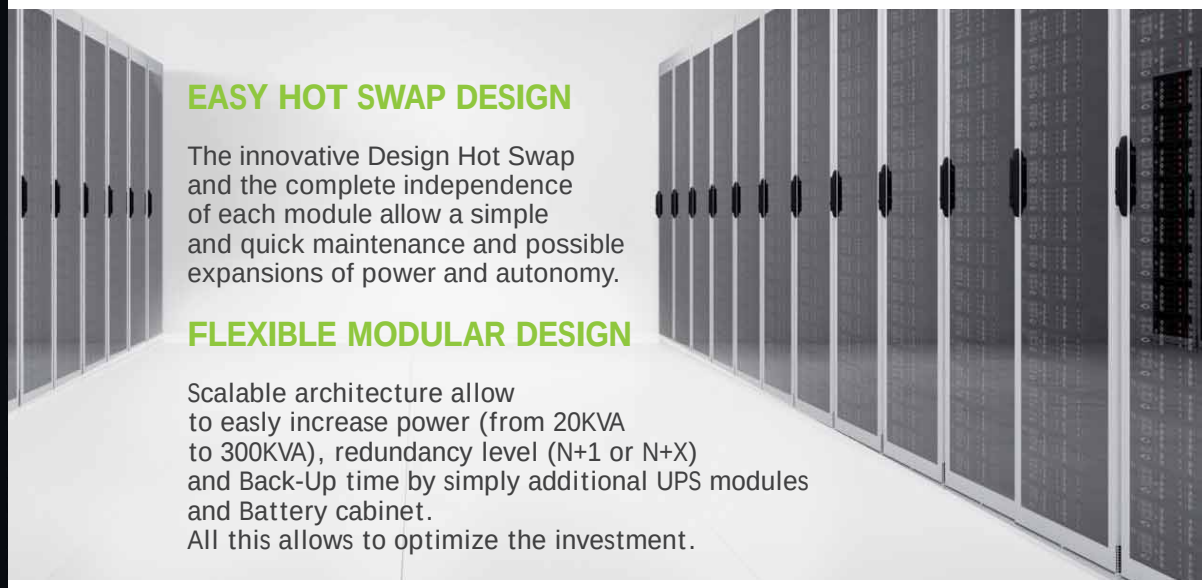
ON LINE

EVO DSP PLUS MODULAR 400 VAC PF1
20-300

Together on

LOCAL AREA NETWORK

DATA CENTER



EASY HOT SWAP DESIGN

The innovative Design Hot Swap and the complete independence of each module allow a simple and quick maintenance and possible expansions of power and autonomy.

FLEXIBLE MODULAR DESIGN

Scalable architecture allow to easly increase power (from 20KVA to 300KVA), redundancy level (N+1 or N+X) and Back-Up time by simply additional UPS modules and Battery cabinet.
All this allows to optimize the investment.

NO-DOWNTIME SYSTEM

The Redundance configuration and Hot Swap Design ensure always full power also in case of failure and replacement of module or scheduled maintenance. All this features guarantee low MTTR (Mean Time To Repair).

1. 10” touch LCD display
2. Input / Output, Maintenance Bypass, Breakers
3. STS Module Includes Communication Ports
4. Power Module
5. Battery Module

POWER FACTOR 1

HIGH EFFICENCY 96,5%

- For Data Centers, Local Area Network (LAN), Industrial equipment, Electromedical equipment
- 10” touch LCD display
- Compatible with Generators
- Power Factor 1
- Frequency converter
- Shared Battery Cabinet
- Battery module up to 120 KVa conteined in the same cabinet
- High MTBF and low MTTR
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

Ease of installation and maintenance

Built-in maintenance bypass assures continuous power to critical loads during UPS maintenance.

Easy installation and maintenance, panel control and connectors with frontal accessibility.

Find more information here

www.tecnoware.com/tec/pdf/Sch.Tec.EVO_DSP_PLUS_Modular_400_ENG.pdf

High Italian Quality

TECNOManager UPS Management Software

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EVO DSP PLUS MODULAR 400 VAC PF1
20-300

Together on

FLEXIBLE BACK-UP TIME CONFIGURATION

Battery box with scalable architecture and Hot Swap design to increase Back-Up time and for easy battery maintenance.

REDUNDANT POWER SUPPLY IN STS

NO RISK OF SHUTDOWN

Battery Module

	MODULE for UPS EVO DSP PLUS MODULAR PF1 (400Vac)	
Code	FGCEVDPM20TT	FGCEVDPM30TT
Nominal power	20KVA	30KVA
Active power	20KW	30KW
Dimensions WxHxD	44x13,2x65 cm (3U)	
Input		
Nominal Voltage	360Vac/380Vac/400Vac/415Vac (3Ph+N)	
Output		
Nominal Voltage	360Vac/380Vac/400Vac/415Vac (3Ph+N)	
Battery		
Nominal Voltage	+/- 240Vdc (12Vdc x 40 pz)	
Maximum Charging Current	6A	8A

30KVA UPS Module (400Vac)

20KVA UPS Module (400Vac)

Configuration

	UPS EVO DSP PLUS MODULAR PF1 (400Vac) CABINET					
Code	FGCEVDPM30B90K	FGCEVDPM30B120K	FGCEVDPM30B180K	FGCEVDPM42B120K	FGCEVDPM42B210K	FGCEVDPM42B300K
Height	30U	30U	30U	42U	42U	42U
STS Capacity	90KW	120KW	180KW	120KW	210KW	300KW
Type of installable UPS Module	30KW or 20KW					
Max. number of installable UPS Module	3	4	6	4	8	10
Battery Modules layers (4 Battery Modules each layer)	3 (12 Modules)	-	-	5 (20 Modules)	-	-
Max. capacity of installing 20KVA Module	60KW/60KVA	80KW/80KVA	120KW/120KVA	80KW/80KVA	160KW/160KVA	200KW/200KVA
Max. capacity of installing 30KVA Module	90KW/90KVA	120KW/120KVA	180KW/180KVA	120KW/120KVA	210KW/210KVA (If installed with 8 pcs, 1 is for redundancy)	300KW/300KVA

PARALLELABLE SYSTEM

Configuration

10” touch LCD display

	UPS EVO DSP PLUS MODULAR PF1 (400Vac) CABINET		
Code	FGCEVDPM30A80K	FGCEVDPM30A120K	FGCEVDPM42A200K
Height	30U	30U	42U
STS Capacity	80KW	120KW	200KW
Type of installable UPS Module	20KW		
Max. number of installable UPS Module	4	6	10
Battery Modules layers (4 Battery Modules each layer)	-		
Max. capacity of installing HV 20KVA Module	80KW/80KVA	120KW/120KVA	200KW/200KVA

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RoHS COMPLIANT CE

NEW

ON LINE

EVO DSP PLUS MODULAR 208 VAC PF1

20-140

Together on

LOCAL AREA NETWORK

DATA CENTER

EASY HOT SWAP DESIGN

The innovative Design Hot Swap and the complete independence of each module allow a simple and quick maintenance and possible expansions of power and autonomy.

FLEXIBLE MODULAR DESIGN

Scalable architecture allow to easly increase power (from 20KVA to 140KVA), redundancy level (N+1 or N+X) and Back-Up time by simply additional UPS modules and Battery cabinet.
All this allows to optimize the investmen

NO-DOWNTIME SYSTEM

The Redundance configuration and Hot Swap Design ensure always full power also in case of failure and replacement of module or scheduled maintenance. All this features guarantee low MTTR (Mean Time To Repair).

POWER FACTOR 1

HIGH EFFICENCY 96,5%

- For Data Centers, Local Area Network (LAN), Industrial equipment, Electromedical equipment
- 10” touch LCD display
- Compatible with Generators
- Power Factor 1
- Frequency converter
- Shared Battery Cabinet
- High MTBF and low MTTR
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

Evo Dsp Plus Modular 208 Vac PF1

1. 10” touch LCD display
2. Input/Output Switches and Maintenance Bypass
3. STS Module and Communication Ports
4. Power Module

Ease of installation and maintenance

Built-in maintenance bypass assures continuous power to critical loads during UPS maintenance.

Easy installation and maintenance, panel control and connectors with frontal accessibility.

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE®

RoHS COMPLIANT CE

NEW

EVO DSP PLUS MODULAR 208 VAC PF1
20-140

Together on

REDUNDANT POWER SUPPLY IN STS

NO RISK OF SHUTDOWN

	MODULE for UPS EVO DSP PLUS MODULAR PF1 (208Vac)
Code	**FGCEDPM20TT208**
Nominal power	20KVA
Active power	20KW
Dimension WxHxD	73,65x13,3x49 cm (3U)
Input	
Nominal voltage	3 x 208Vac/220Vac (3Ph+N)
Output	
Nominal voltage	3 x 208Vac/220Vac (3Ph+N)
Battery	
Nominal voltage	+/- 120Vdc (12Vdc x 20 pz)
Maximum Charging Current	8A

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UPS 20KVA Module (208Vac)

PARALLELABLE SYSTEM

10” touch LCD display

Configuration

	UPS EVO DSP PLUS MODULAR PF1 (208Vac) CABINET		
Code	**FGCEDPM30A80K208**	**FGCEDPM30A120K208**	**FGCEDPM42A140K208**
Height	30U	30U	42U
STS Power	80KW	120KW	140KW
Type of installable UPS Module		20KW	
Max. number of installable UPS Module	4	6	7+1
Max. capacity of installing 20KVA Module	20-80KW/20-80KVA	20-120KW/20-120KVA	20-140KW/20-140KVA (If installed with 8 pcs, 1 is for redundancy)

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Find more information here

www.tecnoware.com/tec/pdf/Sch.Tec.EVO_DSP_PLUS_Modular_208_ENG.pdf

High Italian Quality

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RoHS COMPLIANT CE

NEW

ON LINE

EVO DSP PLUS MODULAR 480 VAC PF1

70-700

Together on

LOCAL AREA NETWORK

DATA CENTER

EASY HOT SWAP DESIGN

The innovative Design Hot Swap and the complete independence of each module allow a simple and quick maintenance and possible expansions of power and autonomy.

FLEXIBLE MODULAR DESIGN

Scalable architecture allow to easly increase power (from 70KVA to 700KVA), redundancy level (N+1 or N+X) and Back-Up time by simply additional UPS modules and Battery cabinet.
All this allows to optimize the investment.

NO-DOWNTIME SYSTEM

The Redundance configuration and Hot Swap Design ensure always full power also in case of failure and replacement of module or scheduled maintenance. All this features guarantee low MTTR (Mean Time To Repair).

POWER FACTOR 1

HIGH EFFICENCY 96,5%

- For Data Centers, Local Area Network (LAN), Industrial equipment, Electromedical equipment
- 10” touch LCD display
- Compatible with Generators
- Power Factor 1
- Frequency converter
- Shared Battery Cabinet
- High MTBF and low MTTR
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

Evo Dsp Plus Modular 480 Vac PF1
350 KW

Evo Dsp Plus Modular 480 Vac PF1
700 KW

1 10” touch LCD display 2 Input/Output Switches and Maintenance Bypass 3 STS Module and Communication Ports 4 Power Module

Ease of installation and maintenance

Built-in maintenance bypass assures continuous power to critical loads during UPS maintenance.

Easy installation and maintenance, panel control and connectors with frontal accessibility.

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE®

RoHS COMPLIANT CE

ON LINE

NEW

EVO DSP PLUS MODULAR 480 VAC PF1
70-700

Together on

FLEXIBLE BACK-UP TIME CONFIGURATION

Battery box with scalable architecture
and Hot Swap design to increase Back-Up time
and for easy battery maintenance.

Battery Module

REDUNDANT POWER SUPPLY IN STS

NO RISK OF SHUTDOWN

	MODULE for UPS EVO DSP PLUS MODULAR PF1 (480Vac)
Code	**FGCEDPM70TT480**
Nominal power	70KVA
Active power	70KW
Dimension WxHxD	75x13x43,8cm (3U)
Input	
Nominal voltage	3 x 480Vac (3Ph without N)
Output	
Nominal voltage	3 x 480Vac (3Ph without N)
Battery	
Nominal voltage	+/- 240Vdc (12Vdc x 40 pz)
Maximum Charging Current	18A

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UPS 70KVA Module (480Vac)

PARALLELABLE SYSTEM

10” touch LCD display

Configuration

	UPS EVO DSP PLUS MODULAR PF1 (480Vac) CABINET	
Code	**FGCEDPM42A350K480**	**FGCEDPM42A700K480**
Height	42U	
STS Power	350KW	700KW
Type of installable UPS Module	70KW	
Max. number of installable UPS Module	5	10
Max. capacity of installing 70KV Module	70-350KW/70-350KVA	70-700KW/70-700KVA

Find more information here

www.tecnoware.com/tec/pdf/Sch.Tec.EVO_DSP_PLUS_Modular_480_ENG.pdf

High Italian Quality

TECNOWARE®

RoHS COMPLIANT CE

NEW

ON LINE

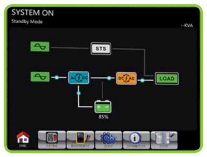
UPS EVO DSP PLUS TM PF1

10-20

Together on

Ups Evo DSP Plus 10-20 TM PF 1

POWER FACTOR 1



DISPLAY **LCD** color touch

1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Input bypass switch 7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input voltage switch 10 Connector for external Battery Box 11 Input/output terminal box

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/bypass
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery recharge system managed by microprocessor
- Static and manual bypass
- Expandable up to 3 units in parallel with shared Box Battery
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 96%

Specifications

UPS Model	EVO DSP PLUS TM 10.0-20.0 PF 1										
					NEW						
Code	FGCEDP10TM/00	FGCEDP10TM/C	FGCEDP10TM/D	FGCEDP10TM/E	FGCEDP10TM/2C	FGCEDP10TM/2D	FGCEDP10TM/2E	FGCEDP20TM/00	FGCEDP20TM/C	FGCEDP20TM/D	FGCEDP20TM/E
Nominal power	10 KVA							20 KVA			
Active power	10 KW							20 KW			
Power Factor	1										
Technology	On-Line Double Conversion transformerless (VFI-SS-111)										
Cooling	Fan cooling										
Dimension (UPS) WxHxD	25x82,6x63 cm										
Dimension (with packing) WxHxD	38,5x102,5x73,5 cm										
Weight	70 Kg	116 Kg	124 Kg	128 Kg	160Kg	172 Kg	184 Kg	80 Kg	150 Kg	166 Kg	173 Kg
Input											
Number of phases	3Ph+N										
Nominal voltage	360Vac/380Vac/400Vac/415Vac										
Nominal voltage (Ph-N)	208Vac/220Vac/230Vac/240Vac										
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 110Vac-300Vac to 50% load										
Nominal frequency	50/60 Hz										
Input frequency range On-Line mode	46-54 Hz or 56-64 Hz										
Input current harmonic distortion (THDi)	≤4%										
Input power factor	0,99										
Output											
Number of phases	1Ph+N										
Nominal voltage	208Vac/220Vac/230Vac/240Vac										
Voltage Regulation (On-Line and Battery mode)	±1%										
Voltage THD at rated linear load	<2% (linear load) - <5% (distorting load)										
Crest factor	3:1										
Frequency	50/60 Hz										
Frequency stability	±0,1 Hz										
Inverter waveform	Sinewave										
Overload capability (On-line mode))	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate										
Overload capability (Battery mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate										
Efficiency	96%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3										
Transfer time	0 ms (On-Line)										
Battery											
Type	Lead acid, sealed, maintenance free										
Installed inside	-	20 elements (10+10)			40 elements 2 x (10+10)			-	32 elements (16+16)		
Extended autonomy	External Battery Box (opt)	-						External Battery Box (opt)	-		
Environmental specification											
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C, for longer battery life)										
Humidity	< 95% without condensation										
Maximum altitude	3000 m										
IP protection	IP20										
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)										

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Accessories

Model	Code
Parallel cables kit	FGCKITPARCA1
Internal SNMP interface	FGCNETAG7
ModBus RS485 interface	FGCMODBUS

Model	Code
Dry Contact DB9 interface	FGCEVODSDRY3
Dry Contact 9 PIN interface	FGCEVODSDRY4

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE®

RoHS COMPLIANT CE

UPS EVO DSP PLUS TM PF1
BATTERY BOX

Together on

Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TM 10.0 PF 1												
Code	FBBEP240A2/00	FBBEP240A2/18	FBBEP240A2/24	FBBEP240B2/00	FBBEP240B2/40	FBBEP240B2/60	FBBEP240B2/80	FBBEP240D2/00	FBBEP240D2/65	FBBEP240D2/100	FBBEP240D2/120	FBBEP240C2/00	FBBEP240C2/150
Dimension (Box) LxHxP	60 x 110 x 60 cm			61 x 140 x 68 cm				61 x 140 x 88 cm				81 x 190 x 98 cm	
Dimension (with packing) WxHxD	74 x 162,5 x 104,5 cm			94 x 212,5 x 114,5 cm				94 x 212,5 x 114,5 cm				94 x 212,5 x 114,5 cm	
Weight	80 Kg	190 kg	240 kg	175kg	420 kg	505 kg	625 Kg	175 kg	560 kg	755kg	785 Kg	285 Kg	1.155 Kg
Equipped with	Battery cable to connect UPS to Battery Box												
Battery													
Type	Lead acid, sealed, maintenance free												
Protection													
Battery circuit	Disconnector												
Environmental specification													
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)												
Humidity	< 95% without condensation												
Maximum altitude	3000 m												
IP protection	IP20												
Certifications	CE												

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Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX PER EVO DSP PLUS TM 20 PF 1												
Code	FBBEP384B/00	FBBEP384B/24	FBBEP384B/40	FBBEP384C/00	FBBEP384C/60	FBBEP384C/65	FBBEP384C/80	FBBEP384D/00	FBBEP384D/100	FBBEP384D/120	FBBEP384E/00	FBBEP384E/140	FBBEP384E/200
Dimension (Box) LxHxP	61 x 140 x 88 cm			81 x 140 x 88 cm				81 x 190 x 98 cm			121 x 190 x 98 cm		
Dimension (with packing) WxHxD	74 x 162,5 x 84,5 cm 380 Kg			94 x 162,5 x 104,5 cm				94 x 212,5 x 114,5 cm			134x 212,5 x 114,5 cm		
Weight	150 Kg	380 kg	770 kg	205 kg	700 kg	820 kg	950 Kg	285 kg	1.250 kg	1.260 kg	350 Kg	1.670 kg	2.240 kg
Equipped with	Battery cable to connect UPS to Battery Box												
Battery													
Type	Lead acid, sealed, maintenance free												
Protection													
Battery circuit	Disconnector												
Environmental specification													
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)												
Humidity	< 95% without condensation												
Maximum altitude	3000 m												
IP protection	IP20												
Certifications	CE												

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High Italian Quality

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NEW

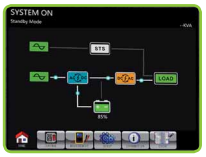
ON LINE

UPS EVO DSP PLUS TT PF1

10-20-30

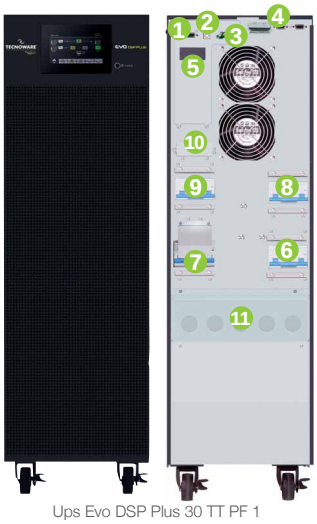
Together on

POWER FACTOR 1



DISPLAY **LCD** color touch

Ups Evo DSP Plus 10-20 TT PF 1



Ups Evo DSP Plus 30 TT PF 1

1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Input bypass switch 7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input voltage switch 10 Connector for external Battery Box 11 Input/output terminal box

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/bypass
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery recharge system managed by microprocessor
- Static and manual bypass
- Expandable up to 2 units in parallel with shared Box Battery
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 96%

Specifications

UPS Model	EVO DSP PLUS TT 10.0-20.0-30.0 PF 1								NEW	NEW	NEW	NEW
Code	FGCEDP10TT/00	FGCEDP10TT/C FGCEDP10TT/2C	FGCEDP10TT/D FGCEDP10TT/2D	FGCEDP10TT/E FGCEDP10TT/2E	FGCEDP20TT/00	FGCEDP20TT/C	FGCEDP20TT/D	FGCEDP20TT/E	FGCEDP30TT2/00	FGCEDP30TT2/2C	FGCEDP30TT2/2D	FGCEDP30TT2/2E
Nominal power	10 KVA				20 KVA				30 KVA			
Active power	10 KW				20 KW				30 KW			
Power Factor	1											
Technology	On-Line Double Conversion transformerless (VFI-SS-111)											
Cooling	Fan cooling											
Dimension (UPS) WxHxD	25x82,6x63 cm								30x100x81,5 cm			
Dimension (with packing) WxHxD	38,5x102,5x73,5 cm								38,5x120,5x92 cm			
Weight	70 Kg	116 Kg 160 Kg	124 Kg 176 Kg	128 Kg 184 Kg	80 Kg	150 Kg	166 Kg	173 Kg	95 Kg	235 Kg	268 Kg	280 Kg
Input												
Number of phases	3Ph+N											
Nominal voltage	360Vac/380Vac/400Vac/415Vac											
Nominal voltage (Ph-N))	208Vac/220Vac/230Vac/240Vac											
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 110Vac-300Vac to 50% load											
Nominal frequency	50/60 Hz											
Input frequency range On-Line mode	46-54 Hz or 56-64 Hz											
Input current harmonic distortion (THDi)	≤4%											
Input power factor	0,99											
Output												
Number of phases	3Ph+N											
Nominal voltage	360Vac/380Vac/400Vac/415Vac (Ph-N: 208Vac/220Vac/230Vac/240Vac)											
Voltage Regulation (On-Line and Battery mode)	±1%											
Voltage THD at rated linear load	<2% (linear load) - <5% (distorting load)											
Crest factor	3:1											
Frequency	50/60 Hz											
Frequency stability	±0,1 Hz											
Inverter waveform	Sinewave											
Overload capability (On-line mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate											
Overload capability (Battery mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate											
Efficiency	96%, calculated in double conversion mode at 100% load to 100% load according to standard 62040-3											
Transfer time	0 ms (On-Line)											
Battery												
Type	Lead acid, sealed, maintenance free											
Installed inside	-	20 elements (10+10) 40 elements 2 x (10+10)			-	32 elements (16+16)			-	64 elements (2 set 16+16)		
Extended autonomy	External Battery Box (opt)	-			External Battery Box (opt)	-			External Battery Box (opt)	-		
Environmental specification												
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C, for longer battery life)											
Humidity	< 95% without condensation											
Maximum altitude	3000 m											
IP protection	IP20											
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)											

Accessories

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Model	Code
Parallel cables kit	FGCKITPARCA1
Internal SNMP interface	FGCNETAG7
ModBus RS485 interface	FGCMODBUS
Dry Contact DB9 interface	FGCEVODSDRY3

Model	Code
Dry Contact 9 PIN interface	FGCEVODSDRY4
Three-phase isolating transf. 10 KVA star/star	FGCIT10KSST
Three-phase isolating transf. 10 KVA delta/star	FGCIT10KTST
Three-phase isolating transf. 20 KVA star/star	FGCIT20KSST

Model	Code
Three-phase isolating transf. 20 KVA delta/star	FGCIT20KTST
Three-phase isolating transf. 30 KVA delta/star	FGCIT30KSST
Three-phase isolating transf. 30 KVA delta/star	FGCIT30KTST

High Italian Quality

TECNOManager UPS Management Software

TECNOWARE®

RoHS COMPLIANT CE

UPS EVO DSP PLUS TT PF1
BATTERY BOX

Together on

Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TT 10.0 PF 1												
Code	FBBEP240A2/00	FBBEP240A2/18	FBBEP240A2/24	FBBEP240B2/00	FBBEP240B2/40	FBBEP240B2/60	FBBEP240B2/80	FBBEP240D2/00	FBBEP240D2/65	FBBEP240D2/100	FBBEP240D2/120	FBBEP240C2/00	FBBEP240C2/150
Dimension (Box) LxHxP	60 x 110 x 60 cm			61 x 140 x 68 cm				61 x 140 x 88 cm				81 x 190 x 98 cm	
Dimension (with packing) WxHxD	74 x 162,5 x 104,5 cm			94 x 212,5 x 114,5 cm				94 x 212,5 x 114,5 cm				94 x 212,5 x 114,5 cm	
Weight	80 Kg	190 kg	240 kg	175kg	420 kg	505 kg	625 Kg	175 kg	560 kg	755kg	785 Kg	285 Kg	1.155 Kg
Equipped with	Battery cable to connect UPS to Battery Box												
Battery													
Type	Lead acid, sealed, maintenance free												
Protection													
Battery circuit	Disconnector												
Environmental specification													
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)												
Humidity	< 95% without condensation												
Maximum altitude	3000 m												
IP protection	IP20												
Certifications	CE												

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Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TT 20-30 PF 1												
Code	FBBEP384B/00	FBBEP384B/24	FBBEP384B/40	FBBEP384C/00	FBBEP384C/60	FBBEP384C/65	FBBEP384C/80	FBBEP384D/00	FBBEP384D/100	FBBEP384D/120	FBBEP384E/00	FBBEP384E/140	FBBEP384E/200
Dimension (Box) LxHxP	61 x 140 x 88 cm			81 x 140 x 88 cm				81 x 190 x 98 cm			121 x 190 x 98 cm		
Dimension (with packing) WxHxD	74 x 162,5 x 84,5 cm 380 Kg			94 x 162,5 x 104,5 cm				94 x 212,5 x 114,5 cm			134x 212,5 x 114,5 cm		
Weight	150 Kg	380 kg	770 kg	205 kg	700 kg	820 kg	950 Kg	285 kg	1.250 kg	1.260 kg	350 Kg	1.670 kg	2.240 kg
Equipped with	Battery cable to connect UPS to Battery Box												
Battery													
Type	Lead acid, sealed, maintenance free												
Protection													
Battery circuit	Disconnector												
Environmental specification													
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)												
Humidity	< 95% without condensation												
Maximum altitude	3000 m												
IP protection	IP20												
Certifications	CE												

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High Italian Quality

TECNOWARE®

NEW

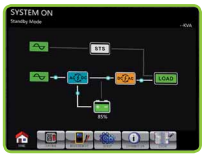
ON LINE

UPS EVO DSP PLUS TT PF 1

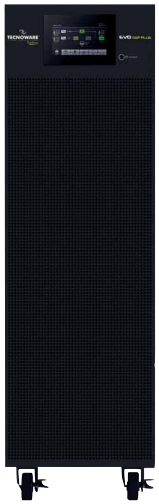
40-60

Together on

POWER FACTOR 1

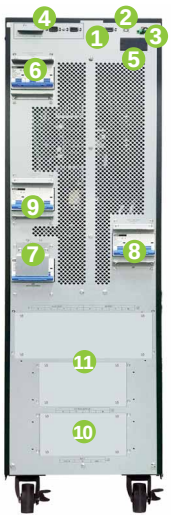


DISPLAY **LCD** color touch



Ups Evo DSP Plus 40-60 TT PF 1

Ups Evo DSP Plus 40 TT PF 1



Ups Evo DSP Plus 60 TT PF 1

1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Input bypass switch 7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input switch 10 Connector for external Battery Box 11 Input/output terminal box

Main Specifications

- Local Area Networks (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Double input mains/Bypass
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Static and manual bypass
- Expandable up to 2 units in parallel with shared Box Battery
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 96%

Specifications

UPS Model	EVO DSP PLUS TT 40.0 PF 1				EVO DSP PLUS TT 60.0 PF 1
	NEW	NEW	NEW	NEW	
Code	FGCEDP40TT2/00	FGCEDP40TT2/2C	FGCEDP40TT2/2D	FGCEDP40TT2/2E	FGCEDP60TT/00
Nominal power	40 KVA				60 KVA
Active power	40 KW				60 KW
Power factor	1				
Technology	On-Line Double Conversion transformerless (VFI-SS-111)				
Cooling	Fan cooling				
Dimension (UPS) WxHxD	30x100x81,5cm				
Dimension (with packing) WxHxD	43x123,5x95,3cm				
Weight	95 Kg	236 Kg	268 Kg	280 Kg	100 Kg
Input					
Number of phases	3Ph+N				
Nominal voltage	360Vac/380Vac/400Vac/415Vac				
Nominal voltage (Ph-N)	208Vac/220Vac/230Vac/240Vac				
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 110Vac-300Vac to 50% load				
Nominal frequency	50/60 Hz				
Input frequency range On-Line mode	±7%				
Input current harmonic distortion THDi	<9% to 50% load, <6% to 100% load				
Input power factor	0,99				
Output					
Number of phases	3Ph+N				
Nominal voltage	360Vac/380Vac/400Vac/415Vac (Ph-N: 208Vac/220Vac/230Vac/240Vac)				
Voltage Regulation (On-Line and Battery mode)	±1%				
Voltage THD at rated linear load	<2% (linear load) - <5% (distorting load)				
Crest factor	3:1				
Frequency	50/60 Hz				
Frequency stability	±0,1 Hz				
Inverter waveform	Sinewave				
Overload capability (On-line mode)	100-110% for 60 minuti, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate				
Overload capability (Battery mode)	100-110% for 60 minuti, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate				
Efficiency	96%, calculated in double conversion mode at 100% load according to standard 62040-3				
Transfer time	0 ms (On-Line)				
Battery					
Type	Lead acid, sealed, maintenance free				
Installed inside	-	64 elements (2 set 16+16)			-
Extended autonomy	External Battery Box (opt)	-			External Battery Box (opt)
Environmental specification					
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)				
Humidity	< 95% without condensation				
Maximum altitude	3000 m				
IP protection	IP20				
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)				

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Accessories

Model	Code
Parallel Kit	FGCKITPARCA1
Internal SNMP	FGCNETAG7
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4
ModBus RS485 Interface	FGCMODBUS

Model	Code
Three-phase isolation Trans. 40 KVA star/star	FGCIT40KSST
Three-phase isolation Trans. 40 KVA delta/star	FGCIT40KTST
Three-phase isolation Trans. 60 KVA star/star	FGCIT60KSST
Three-phase isolation Trans. 60 KVA delta/star	FGCIT60KTST

High Italian Quality

TECNOManager UPS Management Software

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RoHS COMPLIANT CE

UPS EVO DSP PLUS TT PF1
BATTERY BOX

Together on

Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TT 40.0-60.0 PF 1					
Code	FBBEP384B/00	FBBEP384B/40	FBBEP384C/00	FBBEP384C/60	FBBEP384C/65	FBBEP384C/80
Dimension (Box) WxHxD	61 x 140 x 68 cm		81 x 140 x 88 cm			
Dimension (with packing) WxHxD	74 x 162,5 x 84,5 cm		94 x 162,5 x 104,5 cm			
Weight	150 Kg	770 kg	205 kg	800 kg	820 kg	950 kg
Equipped with	Battery cable to connect UPS to Battery Box					
Battery						
Type	Lead acid, sealed, maintenance free					
Protection						
Battery circuit	Disconnector					
Environmental specification						
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)					
Humidity	< 95% without condensation					
Maximum altitude	3000 m					
IP protection	IP20					
Certifications	CE					

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Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TT 40.0-60.0 PF 1					
Code	FBBEP384D/00	FBBEP384D/100	FBBEP384D/120	FBBEP384E/00	FBBEP384E/140	FBBEP384E/200
Dimension (Box) WxHxD	81 x 190 x 98 cm			121 x 190 x 98 cm		
Dimension (with packing) WxHxD	94 x 212,5 x 114,5 cm			134x 212,5 x 114,5 cm		
Weight	285 Kg	1.250 kg	1.260 kg	359 kg	1.670 kg	2.240 kg
Equipped with	Battery cable to connect UPS to Battery Box					
Battery						
Type	Lead acid, sealed, maintenance free					
Protection						
Battery circuit	Disconnector					
Environmental specification						
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)					
Humidity	< 95% without condensation					
Maximum altitude	3000 m					
IP protection	IP20					
Certifications	CE					

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NEW

ON LINE

UPS EVO DSP PLUS TT PF 1

80-100-120-180-200-240-300

Ups Evo DSP Plus TT
80.0-100.0-120.0 PF 1

Ups Evo DSP Plus TT
180.0-200.0 PF 1

Ups Evo DSP Plus TT
240.0-300.0 PF 1

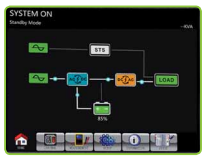
EASY SWAP INTERNAL MODULE WITH REDUNDANT FUNCTION (not hot swappable)

(UPS reduces the power if one module fails)

POWER FACTOR 1

POWER WALK-IN FUNCTION

HIGH GENERATOR COMPATIBILITY



DISPLAY **LCD** colour touch

Main Specifications

- For Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Touch color LCD display
- Power factor 1
- Rectifier by IGBT
- Easy Swap internal modules with redundant function (not hot swappable - UPS reduces the power if one module fails)
- Battery Recharge System managed by Microprocessor
- High compatibility with the generator: due to the Power Walk-in function, the rectifier starts up progressively, reducing the input current so no need oversize the generator.
- Modular internal structure for easy and quick maintenance
- Static and Manual Bypass
- Expandable up to 2 units in parallel
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 96%

Specifications

UPS Model	NEW EVO DSP PLUS TT 80.0 PF 1	EVO DSP PLUS TT 100.0 PF 1	EVO DSP PLUS TT 120.0 PF 1	EVO DSP PLUS TT 180.0 PF 1	EVO DSP PLUS TT 200.0 PF 1	NEW EVO DSP PLUS TT 240.0 PF 1	NEW EVO DSP PLUS TT 300.0 PF 1
Code	FGCEDP80TT/00	FGCEDP100TT/00	FGCEDP120TT/00	FGCEDP180TT/00	FGCEDP200TT/00	FGCEDP240TT/00	FGCEDP300TT/00
Nominal Power	80 KVA	100 KVA	120 KVA	180 KVA	200 KVA	240 KVA	300 KVA
Active Power	80 KW	100 KW	120 KW	180 KW	200 KW	240 KW	300 KW
Power Factor	1						
Technology	On-Line Double Conversion transformerless (VFI-SS-111)						
Cooling	Fan cooling						
Dimension (UPS) WxHxD	43x120x100 cm			60x120x100cm		60x147,5x110cm	
Weight	160 Kg	169 Kg	185 Kg	249 Kg	265 Kg	360Kg	396Kg
Input							
Number of phases	3Ph+N						
Nominal voltage	380Vac/400Vac/415Vac						
Input voltage range (Ph-N)	176Vac-276Vac to 100% load, 110Vac-300Vac to 50% load						
Nominal frequency	50/60 Hz						
Input frequency range On-Line mode	40Hz ~70Hz						
Input current harmonic distortion (THDi)	≤4%						
Input power factor	0,99						
Output							
Number of phases	3Ph+N						
Nominal voltage	380Vac/400Vac/415Vac						
Voltage Regulation (On-Line and Battery mode)	±1%						
Voltage THD at rated linear load	<2% (linear load) - <4% (non-linear load)						
Crest factor	3:1						
Frequency	50/60 Hz						
Frequency stability	±0,1 Hz						
Inverter waveform	Sinewave						
Overload capability	≦ 110% for hour, 111% ~ 125% for 10 minutes,126%~150% for 1 minute, >150% for 200 ms						
Efficiency	96%, calculated in double conversion mode at 100% load according to standard 62040-3						
Transfer time	0 ms (On-Line)						
Battery (fitted inside the external Battery Box)							
Type	Lead acid, sealed, maintenance free						
External Battery Box	See page Battery Box						
Environmental specification							
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)						
Humidity	< 95% without condensation						
Maximum altitude	3000 m						
IP protection	IP20						
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)						

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Accessories

Model	Code
Parallel Kit for Evo Dsp Plus TT 80-300 KVA	FGCKITPAREVDP10
Internal SNMP interface	FGCNETAG7
MODBUS RS485 interface	FGCMODBUS
Dry Contact DB9 interface	FGCEVODSDRY3
Dry Contact 9 PIN interface	FGCEVODSDRY4
Three-phase isolating transformer 80 KVA star/star	FGCIT80KSST
Three-phase isolating transformer 80 KVA delta/star	FGCIT80KTST
Three-phase isolating transformer 100 KVA star/star	FGCIT100KSST
Three-phase isolating transformer 100 KVA delta/star	FGCIT100KTST

Model	Code
Three-phase isolating transformer 120 KVA star/star	FGCIT120KSST
Three-phase isolating transformer 120 KVA delta/star	FGCIT120KTST
Three-phase isolating transformer 180 KVA star/star	FGCIT180KSST
Three-phase isolating transformer 180 KVA delta/star	FGCIT180KTST
Three-phase isolating transformer 200 KVA star/star	FGCIT200KSST
Three-phase isolating transformer 200 KVA delta/star	FGCIT200KTST
Three-phase isolating transformer 240 KVA star/star	FGCIT240KSST
Three-phase isolating transformer 240 KVA delta/star	FGCIT240KTST
Three-phase isolating transformer 300 KVA star/star	FGCIT300KSST
Three-phase isolating transformer 300 KVA delta/star	FGCIT300KTST

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TECNOManager UPS Management Software

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RoHS COMPLIANT CE

UPS EVO DSP PLUS TT PF1
BATTERY BOX

Main Specifications

- Front door for access to battery compartments
- Removable side panels
- Isolator fuse protecting the battery circuit
- Easy maintenance

Specifications

Model	BATTERY BOX FOR EVO DSP PLUS TT 80.0-100.0-120.0-180.0-200.0-240.0-300.0 PF 1					
Code	FBBEP384B/00	FBBEP384B/40	FBBEP384C/00	FBBEP384C/60	FBBEP384C/65	FBBEP384C/80
Dimension (Box) WxHxD	61 x 140 x 68 cm		81 x 140 x 88 cm			
Dimension (with packing) WxHxD	74 x 162,5 x 84,5 cm		94 x 162,5 x 104,5 cm			
Weight	150 Kg	770 kg	205 kg	800 kg	820 kg	950 kg
Equipped with	Battery cable to connect UPS to Battery Box					
Battery						
Type	Lead acid, sealed, maintenance free					
Protection						
Battery circuit	Disconnector					
Environmental specification						
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)					
Humidity	< 95% without condensation					
Maximum altitude	3000 m					
IP protection	IP20					
Certifications	CE					

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Specifications

Model	BBATTERY BOX FOR EVO DSP PLUS TT 80.0-100.0-120.0-180.0-200.0-240.0-300.0 PF 1					
Code	FBBEP384D/00	FBBEP384D/100	FBBEP384D/120	FBBEP384E/00	FBBEP384E/140	FBBEP384E/200
Dimension (Box) WxHxD	81 x 190 x 98 cm			121 x 190 x 98 cm		
Dimension (with packing) WxHxD	94 x 212,5 x 114,5 cm			134x 212,5 x 114,5 cm		
Weight	285 Kg	1.250 kg	1.260 kg	359 kg	1.670 kg	2.240 kg
Equipped with	Battery cable to connect UPS to Battery Box					
Battery						
Type	Lead acid, sealed, maintenance free					
Protection						
Battery circuit	Disconnector					
Environmental specification						
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)					
Humidity	< 95% without condensation					
Maximum altitude	3000 m					
IP protection	IP20					
Certifications	CE					

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NEW

ON LINE

UPS EVO DSP PLUS TT 208 VAC PF 1

10-20

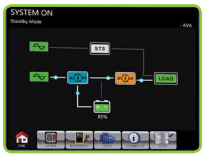
Together on

Ups Evo DSP Plus 10 TT 208V PF 1

Ups Evo DSP Plus 20 TT 208V PF 1

208 Vac

POWER FACTOR 1



DISPLAY **LCD**
color touch

1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Input bypass switch
7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input switch 10 Connector for external Battery Box 11 Input/output terminal box

Main Specifications

- Local Area Networks (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Static and manual bypass
- Expandable up to 3 units in parallel with shared Box Battery
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

UPS Model	EVO DSP PLUS 10 TT 208V PF 1	EVO DSP PLUS 20 TT 208V PF 1
Code	**FGCEDP10TT208/00**	**FGCEDP20TT208/00**
Nominal power	10 KVA	20 KVA
Active power	10 KW	20 KW
Power factor	1	
Technology	On-Line Double Conversion transformerless (VFI-SS-111)	
Cooling	Fan cooling	
Dimension (UPS) WxHxD	25x82,6x62,6cm	30x100x81,5cm
Dimension (with packing) WxHxD	38x106,1x76,4cm	43x123,5x95,3cm
Weight	45 Kg	71Kg
Input		
Number of phases	3Ph+N	
Nominal voltage	208Vac/220Vac	
Nominal voltage (Ph-N)	120Vac/127Vac	
Input voltage range (Ph-N)	88Vac-146Vac to 100% load, 70Vac-156Vac to 50% load	
Nominal frequency	50/60 Hz	
Input frequency range On-Line mode	±7%	
Input current harmonic distortion THDi	<9% to 50% load, <6% to 100% load	
Input power factor	0,99	
Output		
Number of phases	3Ph+N	
Nominal voltage	208Vac/220Vac (Ph-N: 120Vac/127Vac)	
Voltage Regulation (On-Line and Battery mode)	±1%	
Voltage THD at rated linear load	<2% (linear load) - <4% (distorting load)	
Crest factor	3:1	
Frequency	50/60 Hz	
Frequency stability	±0,1 Hz	
Inverter waveform	Sinewave	
Overload capability (On-line mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate	
Overload capability (Battery mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate	
Efficiency	94%, calculated in double conversion mode at 100% load according to standard 62040-3	
Transfer time	0 ms (On-Line)	
Battery		
Type	Lead acid, sealed, maintenance free	
Ready for installed inside	Ready for 32 elements (2 set 8+8)	
Extended autonomy	External Battery Box (optional) ±96Vdc	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	

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Accessories

Model	Code
Parallel Kit	FGCKITPARCA1
Internal SNMP	FGCNETAG7
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4
ModBus RS485 Interface	FGCMODBUS

High Italian Quality

TECNOManager UPS Management Software

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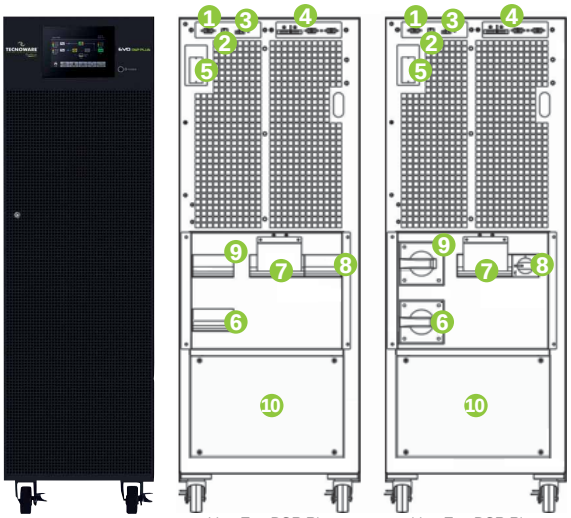
ON LINE

NEW

UPS EVO DSP PLUS TT 208V PF1
30-40

Together on

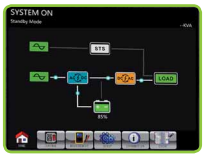


Ups Evo DSP Plus 30 TT 208V PF 1

Ups Evo DSP Plus 40 TT 208V PF 1

208 Vac

POWER FACTOR 1



DISPLAY **LCD** color touch

1 RS232 port 2 USB port 3 EPO connector 4 Interface for parallel connection 5 Slot for SNMP interface, Dry Contact or MODBUS 6 Input bypass switch 7 Manual bypass switch for maintenance 8 Output voltage switch 9 Input switch 10 Input/output/ external Battery Box terminal box

Main Specifications

- Local Area Networks (LAN), Data Centers, Industrial equipment, Electromedical equipment
- Power factor 1
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Static and manual bypass
- Expandable up to 3 units in parallel with shared Box Battery
- UPS Management Software TecnoManager compatible with Windows, Mac OS X, Unix, Linux, etc.

HIGH EFFICENCY 94%

Specifications

Modelo	EVO DSP PLUS 30 TT 208V PF 1	EVO DSP PLUS 40 TT 208V PF 1
Code	**FGCEDP30TT208/00**	**FGCEDP40TT208/00**
Nominal power	30 KVA	40 KVA
Active power	30 KW	40 KW
Power factor	1	
Technology	On-Line Double Conversion transformerless (VFI-SS-111)	
Cooling	Fan cooling	
Dimension (UPS) WxHxD	25x82,6x62,6cm	
Dimension (with packing) WxHxD	38x106,1x76,4cm	
Weight	112 Kg	117 Kg
Input		
Number of phases	3Ph+N	
Nominal voltage	208Vac/220Vac	
Nominal voltage (Ph-N)	120Vac/127Vac	
Input voltage range (Ph-N)	88Vac-146Vac to 100% load, 70Vac-156Vac to 50% load	
Nominal frequency	50/60 Hz	
Input frequency range On-Line mode	±7%	
Input current harmonic distortion THDi	<9% to 50% load, <6% to 100% load	
Input power factor	0,99	
Output		
Number of phases	3Ph+N	
Nominal voltage	208Vac/220Vac (Ph-N: 120Vac/127Vac)	
Voltage Regulation (On-Line and Battery mode)	±1%	
Voltage THD at rated linear load	<2% (linear load) - <4% (distorting load)	
Crest factor	3:1	
Frequency	50/60 Hz	
Frequency stability	±0,1 Hz	
Inverter waveform	Sinewave	
Overload capability (On-line mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate	
Overload capability (Battery mode)	100-110% for 60 minutes, 100-125% for 10 minutes,125-150% for 1 minute, >150 immediate	
Efficiency	94%, calculated in double conversion mode at 100% load according to standard 62040-3	
Transfer time	0 ms (On-Line)	
Battery		
Type	Lead acid, sealed, maintenance free	
Extended autonomy	External Battery Box (optional) ±120Vdc	
Environmental specification		
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C)	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE (Standards: Low Voltage Directive IEC EN 62040-1; EMC Directive IEC EN 62040-2; classification IEC EN 62040-3)	

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Accessories

Model	Code
Parallel Kit	FGCKITPARCA1
Internal SNMP	FGCNETAG7
Dry Contact DB9 Interface	FGCEVODSDRY3
Dry Contact 9 PIN Interface	FGCEVODSDRY4
ModBus RS485 Interface	FGCMODBUS

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AUTOMATIC TRANSFER SWITCH
16A-30A

1 Input switch 2 Fuse breaker 3 USB Port 4 RS-232 Port 5 Source preference selector 6 Priority setting LED 7 Input source availability LED
8 Output source LED 9 Fault LED 10 Mute button 11 Slot for interface SNMP 12 Status Contact port 13 Output sockets (IEC 320 C13) 14 Output sockets (IEC 320 C19)
15 Input connectors (IEC 16A) 16 Input Terminal Block 17 Output Terminal Block

Main Specifications

- Powered by two separately independent power sources
- Dual power supply for redundancy
- Preferred source selection on front panel
- 19" rack design (1U)
- USB and RS232 communications ports
- UPS Management Software ATS Monitor compatible with Windows

Specifications

ATS Model	AUTOMATIC TRANSFER SWITCH 16A	AUTOMATIC TRANSFER SWITCH 30A
Code	FGCATS1601MM	FGCATS3001MM
Dimension (WxHxD)	48,3 (19'') x 4,4 (1U) x 33 cm	
Weight	5 Kg	6 Kg
Communication port	USB/RS-232	
Input		
Input Voltage	230 Vac	
Input Voltage range	180 Vac - 258 Vac	
Nominal frequency	50/60 Hz	
Maximum Input Current	16A	30A
Input connectors	2 x IEC 320 C20	2 x Terminal Block
Output		
Nominal voltage	230 Vac	
Maximum Output Current	10 A for IEC 320 C13 - 16 A for IEC 320 C19	30 A for Terminal Block - 10 A for IEC 320 C13 - 16 A for IEC 320 C19
Output connectors	8 x IEC 320 C13 - 1 x IEC 320 C19	1 x Terminal Block - 4 x IEC 320 C13 - 1 x IEC 320 C19
Transfer time	9-12 ms (typical), 16 ms max	
Environmental specification		
Working temperature	From -5 to 45 °C	
Humidity	< 95% without condensation	
Certifications	CE	

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Accessories

Model	Code
Internal SNMP for ATS	FGCNETAG9

POWER BATTERY

12V 5AH-7.2AH-9AH-54W

NEW

Power Battery 12V 5Ah

Power Battery 12V 7.2Ah

Power Battery 12V 9Ah

Power Battery 12V 9Ah Long Life

Power Battery 12V 54W Long Life

Main Specifications

- UPS, emergency power systems, data processing centers, alarm and security systems
- Sealed lead acid batteries
- No maintenance
- 12Vdc monoblock
- Batteries designed for regular, long and deep, discharge
- High cyclical performance
- Easy installation
- No hazardous for transport by road/rail/sea/air
- Individually packaged

SINGLE PACKAGING

Specifications

Model	Power Battery 12V 5Ah-7.2Ah-9Ah-54W			NEW	NEW
Code	EACPE12V05ATWB	EACPE12V7A2TWP	EACPE12V09ATWP	EACPE12V09ATWL	EACPE12V54WTWL
Box	Single packaging				
Nominal voltage	12Vdc				
Capacity	5Ah	7.2Ah	9Ah	9Ah	54W
Dimension WxHxD	90 x 101 x 70 cm	151x 94 x 65 cm			
Weight	1,65 Kg	2,22 Kg	2,65 Kg	2,87 Kg	2,87 Kg
Terminal type	Faston 6,35mm	Faston 6,35mm	Faston 6,35mm	Faston 6,35mm	Faston 6,35mm
Internal resistance	Approx 26 mΩ full charge	Approx 28 mΩ full charge	Approx 19 mΩ full charge	Approx 13 mΩ full charge	Approx 12,3 mΩ full charge
Lifespan	5 years			10 years (long life)	10 years (long life)
Container material	ABS				
Electrical Specifications					
Stand-by voltage	13,50-13,80Vdc a 25°C				
Cycle voltage	14,4-15,0Vdc a 25°C				
Initial current charging	1,25A Max	1,8A Max	2,7A Max	2,9A Max	3,7A Max
Maximum charging current	1,5A Max		2,6A Max	2,8A Max	3,5A Max
Charging time	6-8 hours				
Maximum discharge current	75A (5s)	105A (5s)	135A (5s)	140A (5s)	142 A (5s)
Environmental specification					
Working temperature	Discharge: from -15 to 50°C, Charge: from 0 to 40°C, Storage: from -15 to 40°C				
Nominal working temperature	25±3°C				
Capacity affected by temperature	40°C: 103%, 25°C: 100%, 0°C: 86%				
Certifications	CE (Regulation 1542/2023 EU)				

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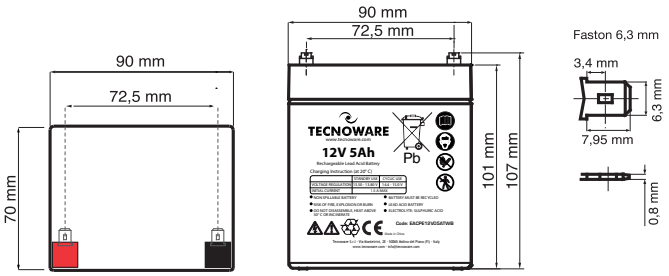
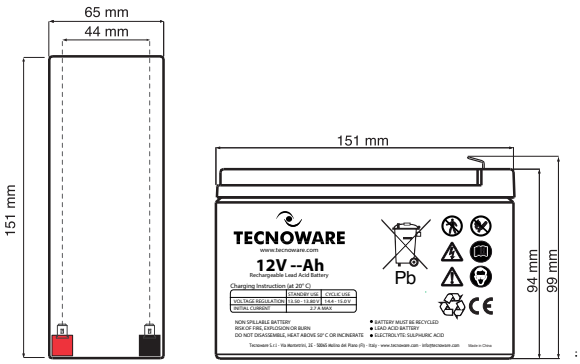
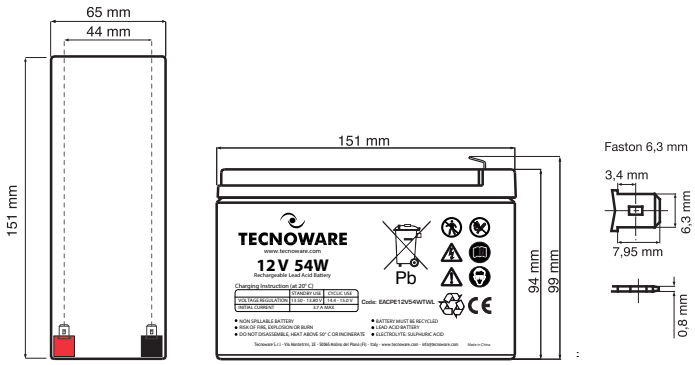


Power Battery 12V 5Ah



Power Battery 12V 7.2Ah-9Ah-9Ah Long Life



Power Battery 12V 54W

High Italian Quality

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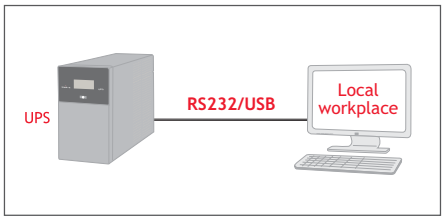
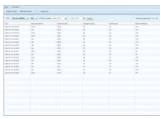
RoHS COMPLIANT CE

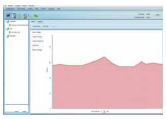
SOFTWARE AND COMUNICATION INTERFACES

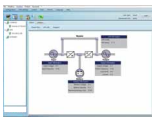


The comunication software is downloadable free from **www.tecnoware.com**. Installing it on your computer can be controlled in real time, through the RS232 serial port or USB, the status of the power supply, the operation of the UPS, the charge level and the efficiency of the batteries.
In the event of anomalies in the power supply, the software will automatically proceed to save all the open files and will then close down the operating system and switch off the computer in an ordered manner, before the autonomy runtime of the UPS expires.
In addition, the software monitors, analyses and records a vast range of parameters related to the operation of the UPS. It visualises in real time, in the form of a graph, the input/output voltage, frequency and charge connected to the UPS, the working temperature and the charge level of the batteries.

UPS Management for Windows


Measures parameters


Graphics


Main window

UPS Management for Mac OS X

Measures parameters

Graphics

Main window

Software Compatibility

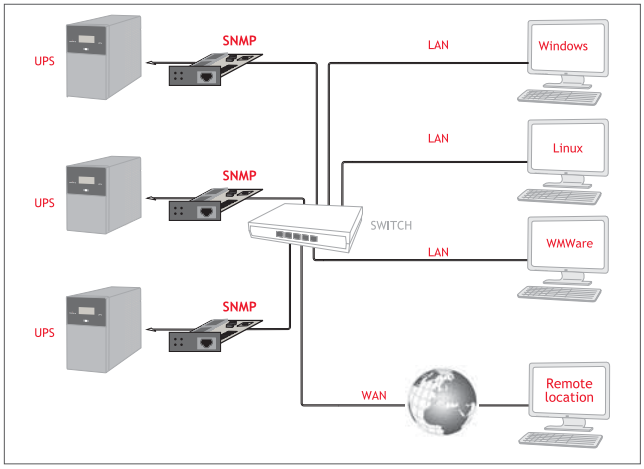
	UPS Management[1]	ATS Monitor[2]
Era Plus 600-2.600	•	
Era Plus Strip 1.000	•	
Era LCD RM 1.200	•	
Era Plus Active 1.200-1.600	•	
Exa PLUS 1.100-1.600-2.100	•	
Exa PLUS 3.000-4.500	•	
Evo DSP Plus 1.200-5.500	•	
Evo DSP Plus RT 1.200-3.600	•	
Evo DSP Plus 6-10	•	
Evo DSP Plus RM 6-10	•	
Evo DSP Plus Modular 20-300	•	
Evo DSP Plus Modular 20-140	•	
Evo DSP Plus Modular 70-100	•	
Evo DSP Plus TM/TT 10-200	•	
ATS		•

1) Compatible with Windows, Mac OS X, Unix, Linux, etc
2) Compatible with Windows

SNMP Interface

(connection through RJ45 LAN network)

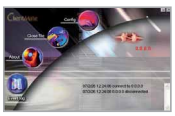
The SNMP (Simple Network Management Protocol) interface enables connection and configuration of the UPS in a LAN computer network. Each SNMP interface provides the necessary software for the monitoring and management of the UPS via LAN, compatible with most Operating Systems.



SNMP Interface Compatibility

	FGCNETAG7	FGCNETAG9
Evo DSP Plus 1.200-5.500	•	
Evo DSP Plus RT 1.200-3.600	•	
Evo DSP Plus 6-10	•	
Evo DSP Plus RM 6-10	•	
Evo DSP Plus Modular 20-300	•	
Evo DSP Plus Modular 20-300	•	
Evo DSP Plus Modular 20-140	•	
Evo DSP Plus Modular 70-100	•	
Evo DSP Plus TM/TT 10-200	•	
ATS		•

IP configuration

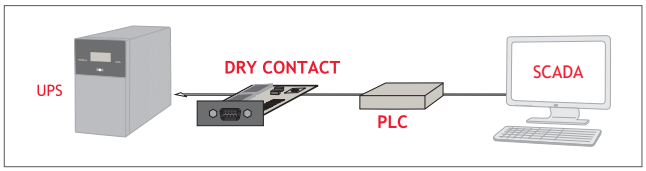

Main window

NetAgent Web Manager

SOFTWARE AND COMUNICATION INTERFACES

Dry Contact board (Dry Contact)

Dry Contact board provides a set of relay contacts (Dry Contacts) able to identify UPS alarm status as battery mode, discharged battery, active bypass or general alarm. It can be used to interface with the systems that manage industrial processes.

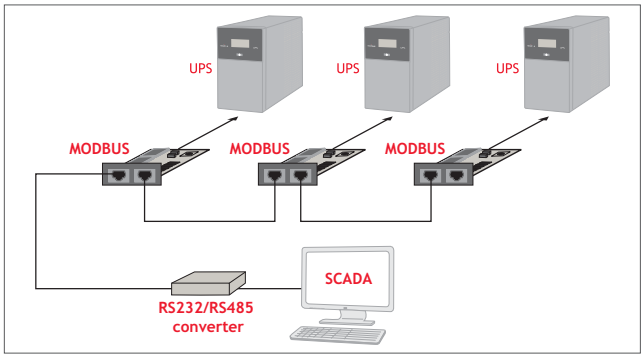


Dry Contact Interface Compatibility

	FGCEVODSDRY3	FGCEVODSDRY4	STANDARD INTERFACE
Evo DSP Plus 1.200-5.500	•	•	
Evo DSP Plus RT 1.200-3.600	•	•	
Evo DSP Plus 6-10	•	•	
Evo DSP Plus RM 6-10	•	•	
Evo DSP Plus Modular 20-300	•	•	
Evo DSP Plus Modular 20-140	•	•	
Evo DSP Plus Modular 70-100	•	•	
Evo DSP Plus TM/TT 10-200	•	•	
ATS			•

MODBUS RS485 board

The MODBUS RS485 interface allows UPS and PC connection trough MODBUS protocol. It has MODBUS RTU protocol, includes reading and writing registers and provides the RS485/RS232 interface.



MODBUS RS485 Interface Compatibility

	FGCMODBUS
Evo DSP Plus 1.200-5.500	•
Evo DSP Plus RT 1.200-3.600	•
Evo DSP Plus 6-10	•
Evo DSP Plus RM 6-10	•
Evo DSP Plus Modular 20-300	•
Evo DSP Plus Modular 20-140	•
Evo DSP Plus Modular 70-100	•
Evo DSP Plus TM/TT 10-200	•

MODBUS Manager

STABILIZER POWER REG
1.000

Together on

Stabilizer Power REG 1.000 VA

1 On/Off switch 2 Led AVR/Power 3 AC input cable 4 Input fuse 5 Stabilized output socket 6 RJ11 port

Main Specifications

- Domestic users, Lighting Systems, Industrial Processes, Communications, Electromedical equipment
- High stabilization speed
- High Efficiency
- No brownouts stabilization
- Do not introduce harmonic distortion
- Management changes from 0 to 100% load

Specifications

Model	STABILIZER POWER REG 1.000
Code	**FSTELPRE1000M**
Nominal Power	1.000 VA
Active Power	800 W
Power Factor	0,8
Technology	Electronic stabilization
Telephone / Modem Line Protection	RJ11
Dimension WxHxD	16,1x8,6x16,6 cm
Dimension (with packing) WxHxD	19,1x11,9x23,1 cm
Weight	2 Kg
Input	
Number of phases	1Ph+N
Nominal voltage	230Vac
Input voltage range	180Vac-264 Vac
Nominal frequency	50 Hz
Output	
Number of phases	1Ph+N
Nominal voltage	230Vac
Voltage regulation	±6%
Nominal frequency	50 Hz
Environmental specification	
Working temperature	From 0 to 55 °C
Humidity	< 95% without condensation
Maximum altitude	3000 m
IP protection	IP20
Certifications	CE

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STABILIZER POWER REG
2.000-3.000

Together on

Stabilizer Power REG 2.000 VA

Stabilizer Power REG 3.000 VA

1 On/Off switch 2 Input Voltage Display 3 Output Voltage Display 4 Start Up Delay time selector stabilization function: Delay 3 minutes, Undelay 10 seconds
5 Input Voltage range selector 6 Led Power - AVR - Overvoltage/undervoltage 7 AC input cable 8 Stabilized output socket 9 Input socket

Main Specifications

- Domestic users, Lighting Systems, Industrial Processes, Communications, Electromedical equipment
- High stabilization speed
- High Efficiency
- No brownouts stabilization
- Do not introduce harmonic distortion
- Management changes from 0 to 100% load

Specifications

Model	STABILIZER POWER REG 2.000-3.000	
Code	**FSTELPRE2000M**	**FSTELPRE3000M**
Nominal Power	2.000 VA	3.000 VA
Active Power	1.600 W	2.400 W
Power Factor	0,8	
Technology	Electronic stabilization	
Start Up Delay time selector stabilization function	Selectable 3 minutes-10 seconds	
Dimension WxHxD	13x18x24 cm	15x20x30 cm
Dimension (with packing) WxHxD	19x24x39 cm	23x27x33 cm
Weight	6,6Kg	8,6 Kg
Input		
Number of phases	1Ph+N	
Nominal voltage	230Vac	
Input voltage range	110Vac-280Vac o 150Vac-270Vac (selectable)	
Nominal frequency	50/60 Hz	
Output		
Number of phases	1Ph+N	
Nominal voltage	230Vac	
Voltage regulation	±6%	
Nominal frequency	50/60 Hz	
Environmental specification		
Working temperature	From 0 to 55 °C	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE	

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SINGLE-PHASE STABILIZERS WITH ELECTRONIC CONTROL

4.5-18

Single-Phase from 4.5KVA
Single-Phase from 7.5KVA
Single-Phase from 10KVA

Single-Phase from 18KVA

Multifunction LCD Display

Multifunction LED Display

1 Multifunction Display 2 Input voltage switch 3 Bypass switch 4 Input/output terminal box

Main Specifications

- Domestic users, Lighting Systems, Industrial Processes, Communications, Electromedical equipment
- High stabilization speed
- High Efficiency
- No brownouts stabilization
- Do not introduce harmonic distortion
- Management changes from 0 to 100% load
- Multifunction display with visualization and setting operating parameters

Specifications

Model	SERVO-ASSISTED SINGLE-PHASE STABILIZERS WITH MICROPROCESSOR ELECTRONIC CONTROL 4.5-18			
Code	**FSTESM4K5M**	**FSTESM7K5M**	**FSTESM10KM**	**FSTESM18KM**
Nominal Power	4.5 KVA	7.5 KVA	10 KVA	18 KVA
Active Power	3,6 KW	6 KW	8 KW	14.4 KW
Power Factor	0,8			
Technology	Servo-Assisted with Microprocessor Electronic Control			
Dimension WxHxD	24,3x28x34,3 cm	30x34x40 cm		40x60x42 cm
Dimension (with packing) WxHxD	36x50x50 cm			47x77x51 cm
Weight	20 Kg	24 Kg	36 Kg	80 Kg
Input				
Number of phases	1Ph+N			
Nominal voltage	220/230/240Vac (selectable)			
Input voltage range	160Vac-270Vac			
Nominal frequency	50/60 Hz			
Output				
Number of phases	1Ph+N			
Nominal voltage	220/230/240Vac (selectable)			
Voltage stability	±1%			
Voltage regulation	12 mSec/Volt			
Performance	>97%			
Load variation	From 0% to 100%			
Overload	150%			
Nominal frequency	50/60 Hz			
Environmental specification				
Working temperature	From 0 to 55 °C			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE			

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THREE-PHASE STABILIZERS WITH ELECTRONIC CONTROL

15-100

NEW

Together on

Three-Phase 15KVA
Three-Phase 25KVA
Three-Phase 50KVA

Three-Phase 100KVA

Multifunction LCD display

1 Multifunction display 2 Operating status indicator 3 Input voltage switch 4 Bypass switch 5 Input/output terminal box

Main Specifications

- Domestic users, Lighting Systems, Industrial Processes, Communications, Electromedical equipment
- High stabilization speed
- High Efficiency
- No brownouts stabilization
- Do not introduce harmonic distortion
- Management changes from 0 to 100% load
- Multifunction display with visualization and setting the operating parameters

Specifications

Model	SERVO-ASSISTED THREE-PHASE STABILIZERS WITH MICROPROCESSOR ELECTRONIC CONTROL 15-100			
Code	NEW FSTESM15KT	FSTESM25KT	FSTESM50KT	FSTESC100KT
Nominal Power	15 KVA	25 KVA	50 KVA	100 KVA
Active Power	12 KW	20 KW	40 KW	80 KW
Power Factor	0,8			
Technology	Servo-assisted with Microprocessor Electronic Control			SCR with Microprocessor Electronic Control
Dimension WxHxD	34x77x40 cm	40x85x52 cm	45x115x85 cm	52x119x84 cm
Dimension (with packing) WxHxD	39x92x48 cm	45x100x60 cm	50x130x93 cm	59x145x96 cm
Weight	92 Kg	107 Kg	157 Kg	356 Kg
Input				
Number of phases	3Ph+N			
Nominal voltage	380/400/415Vac (selectable)			
Input voltage range	260Vac-470Vac			
Nominal frequency	50/60 Hz			
Phase imbalance	100%			
Output				
Number of phases	3Ph+N			
Nominal voltage	380/400/415Vac (selectable)			
Voltage stability	±1%			
Voltage regulation	12 mSec/Volt			4 mSec/Volt
Performance	>97%			
Load variation	From 0% to 100%			
Overload	150%			
Nominal frequency	50/60 Hz			
Environmental specification				
Working temperature	From 0 to 55 °C			
Humidity	< 95% without condensation			
Maximum altitude	3000 m			
IP protection	IP20			
Certifications	CE			

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NEW

BIDIRECTIONAL STABILIZERS

BIDIRECTIONAL SINGLE-PHASE STABILIZERS WITH ELECTRONIC CONTROL

7.5-10

Together on

DESIGNED FOR PHOTOVOLTAIC SYSTEMS

Single-Phase 7.5KVA
Single-Phase 10KVA

Multifunction LED Display

1 Multifunction Display 2 Input voltage switch 3 Bypass switch 4 Input/output terminal box

Main Specifications

- Bidirectional, designed for Photovoltaic Systems with voltage stabilization on both mains input and output side
- For utenze domestic users, Lighting Systems
- High stabilization speed
- High Efficiency
- No brownouts stabilization
- Do not introduce harmonic distortion
- Management changes from 0 to 100% load
- Multifunction display with visualization and setting operating parameters

Specifications

Model	SERVO-ASSISTED BIDIRECTIONAL SINGLE-PHASE STABILIZERS WITH MICROPROCESSOR ELECTRONIC CONTROL 7.5-10	
Code	**FSTESM7K5MBD**	**FSTESM10KMBD**
Nominal Power	7.5 KVA	10 KVA
Active Power	6 KW	8 KW
Power Factor	0,8	
Technology	Servo-Assisted bidirectional with Microprocessor Electronic Control	
Dimension WxHxD	30x34x40 cm	
Dimension (with packing) WxHxD	36x50x50 cm	
Weight	24 Kg	36 Kg
Input		
Number of phases	1Ph+N	
Nominal voltage	220/230/240Vac (selectable)	
Input voltage range	160Vac-270Vac	
Nominal frequency	50/60 Hz	
Output		
Number of phases	1Ph+N	
Nominal voltage	220/230/240Vac (selectable)	
Voltage stability	±3%	
Voltage regulation	12 mSec/Volt	
Performance	>97%	
Load variation	From 0% to 100%	
Overload	150%	
Nominal frequency	50/60 Hz	
Environmental specification		
Working temperature	From 0 to 55 °C	
Humidity	< 95% without condensation	
Maximum altitude	3000 m	
IP protection	IP20	
Certifications	CE	

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SILENT INVERTER GENERATOR
2.200

Together on

SILENT INVERTER Technology

PURE SINEWAVE

ECO SPEED CONTROL

EURO 5 GASOLINE ENGINE

Main Specifications

- Silent Inverter Generator
- Eco Speed Control system to optimize consumption and reduce noise
- Portable and compact
- OHV 4-stroke engine
- Pure Sinewave output voltage
- Fuel tank for 10 hours at 50% load
- Low oil alert
- Overload protection
- Battery Charger
- Dual AC and DC 12V output

H-Greengine

Hi-Power engine with a low consumption

Specifications

Model	SILENT INVERTER GENERATOR 2.200
Code	**FGEINV2200M**
Starting System	Manual
Max reactive power	2.200 VA
Max active power	2.000 W
Power factor	0,9
Rated power	1.800 W
Phase	Single Phase
Technology	Inverter
Rated voltage	230 Vac
Rated frequency	50 Hz
DC output	12Vdc - 8A
AC output	2 Schuko 16A
Insulated grade	F
Fuel tank capacity	4L
Fuel	Unleaded gasoline
Noise level at 7 m	58-62 dBA
Weight	21,5 Kg
Dimension WxHxD	48x39x28 cm
Dimension (with packing) WxHxD	49x40x29cm
Certifications	CE
Engine	
Model	QL80
Type	Single-cylinder forcedair-cooled OHV 4-stroke
Displacement	79,7 cc
Power	6,5 HP
Rated speed	3000 RPM
Ignition system	TCI (transistor ignition)
Lubrification oil **(not included)**	0,35 L SAE 10W-30
Air filter type	Dry
European emission standards	Euro 5

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NEW

GENERATOR

GASOLINE GENERATOR

3.200-4.200-7.800-9.200

EURO 5 GASOLINE ENGINE

AVR
AUTOMATIC VOLTAGE REGULATOR

Gasoline Generator 3.200 VA Recoil Starting System

Gasoline Generator 4.200 VA Electrical Starting System

Gasoline Generator 7.800 VA Electrical Starting System

Gasoline Generator 9.200 VA Electrical/Automatic Starting System

Main Specifications

- OHV 4-stroke engine
- Metal fuel tank for 10 hours at 50% load
- Low oil alert
- AVR and overload protection
- Ready for External Automatic Transfer Switch (only r Gasoline Generator 4.200 VA and Gasoline Generator 9.200 VA)
- Battery Charger (only for electrical model)
- Dual AC and DC 12V output
- Low operation noise

H-Greengine
Hi-Power engine with a low consumption

Specifications

Model	GASOLINE GENERATOR 3.200-4.200-7.800-9.200				
			NEW		
Code	**FGE3200M**	**FGE4200E**	**FGE4200EA**	**FGE7800E**	**FGE9200EA**
Starting System	Manual	Electrical	Electrical/Automatic	Electrical	Electrical/Automatic
Max reactive power	3.200 VA	4.200 VA	4.200 VA	7.800 VA	9.200 VA
Max active power	2.200 W	3.000 W	3.000 VA	5.500 W	6.500 W
Power factor	0,7				
Rated power	2.000 W	2.800 W	2.800 W	5.000 W	6.000 W
Phase	Single Phase				
Voltage regulator	AVR				
Rated voltage	230 Vac				
Rated frequency	50 Hz				
DC output	12Vdc - 8,3A				
AC output sockets	2 Schuko 16A			2 IEC 309 16A	1 IEC 309 32A
Ready for external Gasoline Generator ATS	-		Yes - Code FGEATS9200 (optional)	-	Yes Code FGEATS9200 (optional)
Insulated grade	F				
Fuel tank capacity	15L			25L	
Fuel	Unleaded gasoline				
Noise level at 7 m	68-72 dBA			74-78 dBA	
Hand rails and wheels	-			Included	
Weight	41,5 Kg	48 Kg		82 Kg	85 Kg
Dimension WxHxD	43x42x63 cm			52,5x54,5x69,5 cm	
Dimension (with packing) WxHxD	44x44x64 cm			53,5x56,5x70,5 cm	
Certifications	CE				
Engine					
Model	TW168F	TW170F		TW188F	TW190F
Type	Single-cylinder forcedair-cooled OHV 4-strok				
Displacement	196 cc	210 cc		389 cc	420 cc
Power	6,5 HP	7 HP		13 HP	15 HP
Rated speed	3000 RPM				
Ignition system	TCI (transistor ignition)				
Lubrification oil **(not included)**	0,6 L SAE 10W-30			1,1 L SAE 10W-30	
Air filter type	A secco				
Starter battery	-	12V 7,2 Ah		12V 17 Ah	
European emission standards	Euro 5				

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Accessories

Model	Code
External Gasoline Generator ATS for Generator FGE4200EA and FGE9200EA	FGEATS9200

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GASOLINE GENERATOR ATS
45A

Gasolin e Generator ATS checks the AC mains and charges the Generator battery. In the event of a blackout, it automatically starts the Generator engine and supplies the load with Generator power. When the AC mains returns it supplies the load with AC mains, charges the Generator battery and shutdown (with delay) the Generator engine.

1. AC mains indicator
2. Generator ON indicator
3. Automatic Starting System active indicator
4. Failure indicator
5. Manual/Automatic Starting System selector
6. Generator Interface connector
7. Terminal Block for AC Power from Generator
8. Terminal Block for AC Power from AC mains
9. Terminal Block for AC Power to load
10. Metal hooks for wall mounting

Main Specifications

- Metal case with hooks for wall mounting
- Metal door with key for Terminal Block access
- Generator Automatic Starting System
- Battery charger for Generator battery
- Selector for Manual/Automatic Starting
- 2m ATS/Generator connecting cable

Specifications

ATS Model	GASOLINE GENERATOR ATS 45A
Code	FGEATS9200
Dimension (WxHxD)	25x32x14 cm
Weight	4 Kg
Communication interface	Interface connector with Generator (2m cable, included)
Nominal Voltage	230 Vac
Nominal frequency	50 Hz
Maximum Current	45A
Input/Output connection	Terminal Block
Environmental specification	
Working temperature	From -5 to 45 °C
Humidity	< 95% without condensation
Certifications	CE

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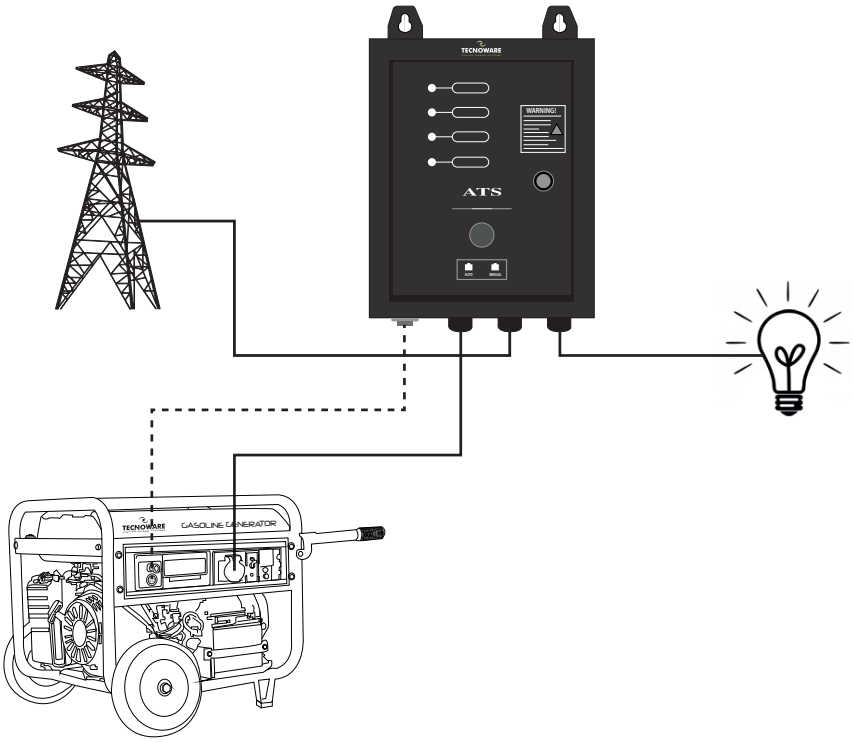

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ATA SOLAR INVERTER

1200 - 3500 - 5500 VA

POWER FACTOR 1

SOLAR INPUT MPPT

ATA 1.200VA

ATA 3.500VA - ATA 5.500VA

Main Specifications

- Pure sinewave MPPT solar inverter
- Power Factor 1
- High PV Input Voltage Range
- Battery equalization function to optimize battery performance and extend lifecycle
- Selectable high power charging current
- Configurable AC/Solar input priority
- Compatible with generator
- Auto restart while AC is recovering
- Cold start function

Specifications

Model	ATA Solar Inverter 1.200	ATA Solar Inverter 3.500	ATA Solar Inverter 5.500
Code	FINVATA1202	FINVATA3502	FINVATA5502
Rated Power	1.200VA / 1.200W	3.500VA / 3.500W	5.500VA / 5.500W
Input			
Voltage	230 VAC		
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)		
Frequency Range	50 Hz/60 Hz (Auto sensing)		
Output			
ACVoltage Regulation(Batt. Mode)	230VAC ‡ 5%		
Surge Power	2.000VA	7.000VA	11.000VA
Efficiency (Peak)	90% ~ 93%	up to 93.5%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)		
Waveform	Pure sinewave		
Battery			
Battery Voltage	12 Vdc	24 Vdc	48 Vdc
Floating Charge Voltage	13.5 Vdc	27 Vdc	54 Vdc
Overcharge Protection	16 Vdc	33 Vdc	63 Vdc
Solar Charger & AC Charger			
Solar Charger Type	MPPT		
Maximum PV Array Open Circuit Voltage	102 Vdc	500 Vdc	
Maximum PV Array Power	700 W	5500 W	
MPPT Range @ Operating Voltage	80~170 Vdc	120~450 Vdc	
Maximum Solar Charge Current	50 A	100 A	
Maximum AC Charge Current	20 A	80 A	
Maximum Charge Current	60 A	100 A	
Physical			
Dimension, D x W x H (mm)	103x225x320	115x300x400	
Net Weight	4.4 Kg	8.5 Kg	9 Kg
Communication Interface	RS232	USB/RS232/Dry Contact	
Environment			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	-10°C to 50°C		
Storage Temperature	-15°C to 60°C		

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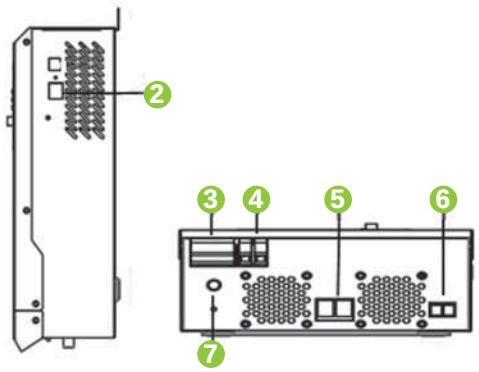
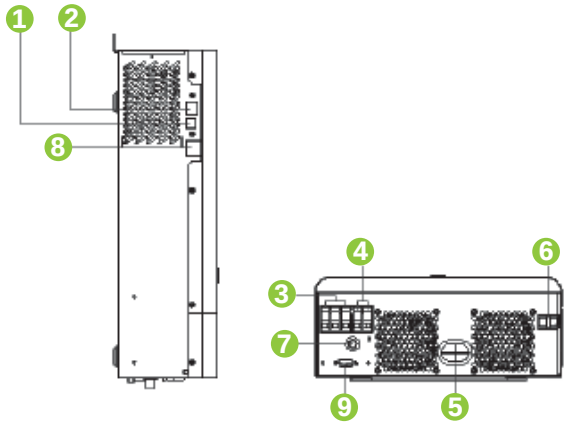
ATA SOLAR INVERTER

1200 - 3500 - 5500 VA



ATA 1.200VA



ATA 3.500VA - ATA 5.500VA

1 USB communication port 2 RS-232 communication port 3 AC input 4 AC output 5 Battery input 6 PV input 7 Circuit breaker 8 Generator dry contact 9 WIFI port

Hybrid Operation

With mains and photovoltaic power.

With mains power.

With photovoltaic power.

With battery power.

CORPORATE SITE

WWW.TECNOWARE.COM

User Experience 4.0

Available in 10 languages, geolocation system and customer/user recognition, personalized browsing experience, dedicated commercial offer.

- E-Commerce User Oriented
- Product Registration Area
- RMA Management Area
- Tecnoware software download area
- Product Catalog with detailed technical data sheets

Configurators: a direct line between the user and our operators

People, behind your needs

Together on

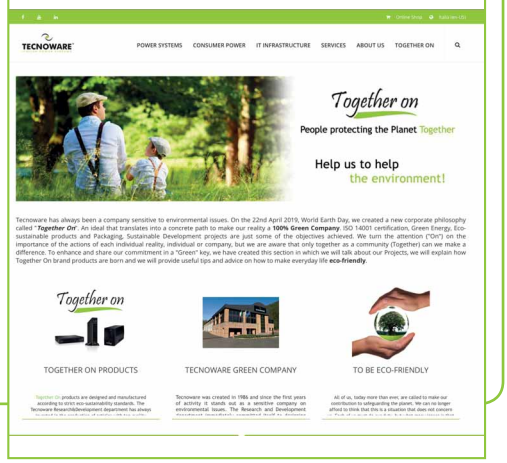
A page dedicated to the *Together On* project. Eco-friendly initiatives, virtuous information and collaboration models linked to the 10 0% Eco Friendly Tecnoware philosophy, to be shared with our Partners.

Together On Products

Tecnoware Azienda Green Oriented

To be Eco-Friendy

www.tecnoware.com/togetheron



TECNOWARE

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TECNOWARE®
ITALIAN POWER SYSTEMS

Via Montetrini 2/E 50065 Molino del Piano - Firenze - Italy
www.tecnoware.com

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001 · ISO 14001