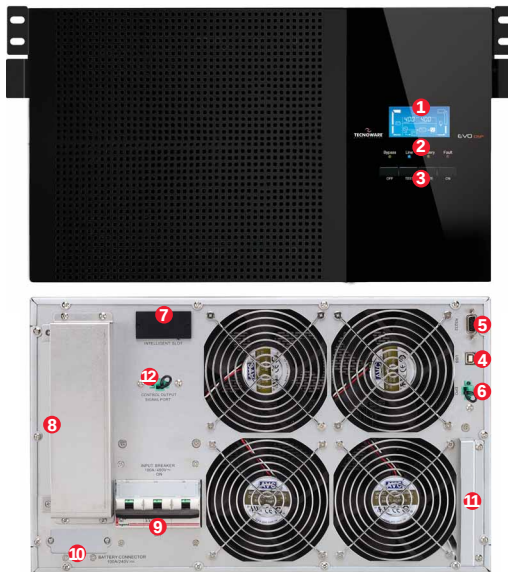


Ups Evo DSP TM 10.0 PF 0,9



Ups Evo DSP TM 15.0-20.0 PF 0,9 - Ups Evo DSP TT 10.0-15.0-20.0 PF 0,9

- 1 - LCD Display
- 2 - LED status indicators
- 3 - Multifunction button
- 4 - USB port
- 5 - RS232 port
- 6 - EPO connector
- 7 - Slot for SNMP or Dry Contact
- 8 - Input/output Terminal Box
- 9 - Mains switch
- 10 - Battery Box connector
- 11 - Parallel interface (optional)
- 12 - External Bypass connector

Main Specifications

- Local Area Networks (LAN), Data Centers
- Power factor 0,9
- Rectifier realized by IGBT technology
- Compatible with Generators
- Battery charging system controlled by microprocessor
- Static Bypass
- Expandable up to 3 units in parallel
- UPS Management Software TecnoManager compatible with Windows, Unix, Linux, ecc.

HE UPS high efficiency, calculated mode
HIGH EFFICIENCY double conversion
100% of load, according to standard 62040-3

Specifications

UPS model	EVO DSP PLUS TM 10.0 RACK MOUNT PF 0,9	EVO DSP PLUS TM 15.0 RACK MOUNT PF 0,9	EVO DSP PLUS TM 20.0 RACK MOUNT PF 0,9	EVO DSP PLUS TT 10.0 RACK MOUNT PF 0,9	EVO DSP PLUS TT 15.0 RACK MOUNT PF 0,9	EVO DSP PLUS TT 20.0 RACK MOUNT PF 0,9
Code	FGCEVDP10TMRM/00	FGCEVDP15TMRM/00	FGCEVDP20TMRM/00	FGCEVDP10TTRM/00	FGCEVDP15TTRM/00	FGCEVDP20TTRM/00
Nominal power	10 KVA	15 KVA	20 KVA	10 KVA	15 KVA	20 KVA
Active power	9 KW	13,5 KW	18 KW	9 KW	13,5 KW	18 KW
Power factor	0,9					
Technology	On-Line Double Conversion transformerless (VFI-SS-111)					
Cooling	Fan cooling					
Audible noise	< 48 dBA to 1 m					
Dimension (UPS) WxHxD	43,8x13,3x66,8 cm (3U)	43,8x26,6x66,8 cm (6U)				
Dimension (with packing) WxHxD	59x26x87,8 cm	59x39,3x87,8 cm				
Input						
Number of phases	3Ph+N					
Nominal voltage	360Vac/380Vac/400Vac/415Vac					
Input voltage range (Ph-N)	176Vac-276Vac 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			3Ph+N		
Nominal voltage	208Vac/220Vac/230Vac/240Vac			360Vac/380Vac/400Vac/415Vac		
Nominal voltage (Ph-N)	208Vac/220Vac/230Vac/240Vac			208Vac/220Vac/230Vac/240Vac		
Voltage Regulation at %100 linear load (On-Line and Battery mode)	±1%					
Voltage THD	<2% (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 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 according to standard 62040-3					
Transfer time	0 ms (On-Line)					
Output connections	Terminal block					
Battery (fitted inside the external Battery Box)						
Number batteries minimum necessary for the operation	20 (inside the external Battery Box)	20+20 (inside two external Battery Box)		20 (inside the external Battery Box)	20+20 (inside two external Battery Box)	
Extended autonomy	External Battery Box (optional)					
Environmental specification						
Working temperature	From 0 to 55 °C (recommended from 20 to 25 °C, for longer battery life see "Battery life in service" graphic)					
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)Certificazioni					
Warranty						
Standard	12 months - After registration on www.tecnoware.com					

Accessories

Model	Code
Dry Contact for Evo Dsp Plus	FGCEVODSDRY3
SNMP for Ups Evo Dsp Plus	FGCNETAG7
ModBus RS485 interface	FGCMODBUS
Kit for Rack UPS installation	FGCKITEVORT

Model	Code
Parallel Kit for Evo DSP Plus TM 10KVA RM	FGCKITPAREVDR1
Parallel Kit for Evo DSP Plus TM 15KVA RM	FGCKITPAREVDR2
Parallel Kit for Evo DSP Plus TM 20KVA RM	FGCKITPAREVDR3
Parallel Kit for Evo DSP Plus TT 10KVA RM	FGCKITPAREVDR4

Model	Code
Parallel Kit for Evo DSP Plus TT 15KVA RM	FGCKITPAREVDR5
Parallel Kit for Evo DSP Plus TT 20KVA RM	FGCKITPAREVDR6
External Bypass for UPS TM 10-20KVA RM	FGCBYP20TMRM
External Bypass for UPS TT 10-20KVA RM	FGCBYP20TTRM

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- 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 Battery Box connection
- 5 - Extra Battery Box connector

Main Specifications

- Internal battery charger on every unit
- Units can be expanded infinitely
- BatterXies 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™/TT 10.0-15.0-20.0 RM PF 0,9		
Code	FBBEVDR240/07	FBBEVDR240/09	FBBEVDR240/11
Box dimension WxHxD	43,8 x 13,3 x 66,8 cm (3U)		
Pack dimension WxHxD	59 x 26 x 87,5 cm		
Weight	57 Kg	61 Kg	65 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	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		
Warranty			
Standard	12 months - After registration on www.tecnaware.com		

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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.