UPS EVO DSP PLUS TT

10-15-20-30

Use

Local Area Network (LAN), Data Centers, Industrial equipment, Electromedical equipment

Protection

- **Blackout**
- Dvnamic Undervoltage
- Dynamic Overvoltage
- Undervoltage
- Overvoltage
- Lightning (UPS + surge discharger upstream)
- Voltage Surge
- Frequency Variation
- Voltage Distortion
- Voltage Harmonic

Main specifications

- Multifunctional LCD display
- Internal battery
- On-Line Double Conversion Technology without transformer (VFI-SS-111)
- Rectifier realized by IGBT technology
- Active PFC Circuit (0.99)
- Wide input voltage tolerance
- Compatible with Generators
- EPO (Emergency Power Off)
- ECO MODE operation
- Frequency converter operation
- Output voltage and frequency can be regulated from the front panel
- Battery recharge system managed by microprocessor
- Static and manual bypass
- RS232 e USB communication ports
- Intelligent slot for SNMP or Dry Contact card
- Expandable up to 3 units in parallel
- High efficiency and low operating cost
- Software di gestione UPS TecnoManager compatibile con Windows, Mac OS X (up to version 10.8), Unix, Linux, ecc



The UPS EVO DSP PLUS are controlled by Digital Signal Processor (DSP) which optimizes the machine operation in any conditions permitting a complete and easy programming.



The UPS range EVO DSP PLUS is designed in accordance with the highest environment protection standards. The high efficiency and low harmonic inputs guarantee the uppermost respect for the environment.













Details



- RS232 port USB port
- EPO connector
- Parallel interface (optional)
- 5 Slot for SNMP interface or Dry Contact 6 Manual bypass switch for maintenance
- 7 Input voltage switch 8 - Connector for extra Battery Box
- 9 Input/output terminal box



Multifuction LCD display



UPS EVO DSP PLUS TT

Specifications

UPS Model	EVO DSP PLUS 10.0 TT	EVO DSP PLUS 15.0 TT	EVO DSP PLUS 20.0 TT	EVO DSP PLUS 30.0 TT						
Nominal power	10 KVA	15 KVA	20 KVA	30 KVA						
active power	8 KW	12 KW	16 KW	24 KW						
Power factor			,8							
echnology		On-Line Double Conversion transformerless (VFI-SS-111)								
ooling	Fan cooling									
udible noise	<58 dBA to 1 m									
imension (UPS) WxHxD		25x82,6x81,5cm		25x100x81,5cm						
imension (with packing) WxHxD		38,5x102,5x92 cm		38,5x120,5x92 cm						
put										
umber of phases		3Pt	n+N							
ominal voltage	360Vac/380Vac/400Vac/415Vac									
put voltage range (Ph-N)	176Vac-300Vac to 100% load, 110Vac-300Vac to 50% load									
ominal frequency	50/60 Hz									
put frequency range On-Line mode	±7%									
put current harmonic distortion (THDi)		±170 <47%								
iput power factor	0,99									
utput										
umber of phases		3Pt	n+N							
ominal voltage		3Ph+N								
9		360/vsc/380/vs								
ominal voltage (Ph-N)	208Vac/220Vac/240Vac									
oltage Regulation at %100	±1%									
near load (On-Line and Battery mode)										
oltage THD at rated linear load	<2% (linear load) - <5% (distorting load)									
rest factor		3								
requency	50/60 Hz									
requency stability	±0,1 Hz									
verter waveform	Sinewave									
verload capability (On-line mode)	110% for 10 minutes, 130% for 1 minute, >130% for 1 second									
verload capability (Battery mode)		110% for 30 seconds, 130% for 10 seconds, >130% for 1 second								
CO Mode efficiency		9	3%							
ransfer time		0 ms (C	n-l ine)							
Output connections			al block							
Bypass	'									
umber of phases		3Pt	n+N							
ominal voltage (Ph-N)										
ominal voltage (Ph-N)		360Vac/380Vac/415Vac 208Vac/220Vac/230Vac/240Vac								
oltage range	Low threshold 110Vac-209Vac (selectable) - High threshold 231Vac-276Vac (selectable)									
nput frequency range (50Hz Nominal frequency)		Low threshold 110vac-209vac (selectable) - High threshold 21-276vac (selectable) Low threshold 46-48 Hz (selectable) - High threshold 51-54 Hz (selectable)								
nput frequency range (60Hz Nominal frequency)		ow threshold 56-58 Hz (selectable)								
Eco Mode		OW throshold oo oo hz (oolootable)	riigir tiriosiloid o r o + riz (solocitas	10)						
oltage range		Low threshold 5-10% (selectable)	High threshold 5-10% (selectable)							
nput frequency range (50Hz Nominal frequency)	Low threshold 5-10% (selectable) - High threshold 5-10% (selectable) Low threshold 46-48 Hz (selectable) - High threshold 52-54 Hz (selectable)									
nput frequency range (60Hz Nominal frequency)		Low threshold 56-58 Hz (selectable) - High threshold 62-64 Hz (selectable)								
Sattery			g	,						
ype		Lead acid, sealed	maintenance free							
Batteries number	20/40 (Installed inside)	40 (Install		60 (Installed inside)						
lattery charge time (typical)	20, 10 (motaliou molad)		nours	(inicialized inicial)						
ominal voltage			Vdc							
xtended autonomy		External Batter	y Box (optional)							
nterfacing	'									
nterface (comunication port)		RS232 a	and USB							
PO			es							
ry Contact interface		Yes (or								
oftware	TecnoManager downloadable free fro	TecnoManager downloadable free from www.tecnoware.com (compatible with WINDOWS, UNIX, LINUX, Mac OS X up to version 10.8, SUN SOLAF								
NMP interface		ompatible with WINDOWS, UNIX, LI								
arallel configuration	· · · · · · · · · · · · · · · · · · ·									
arallel interface		Yes (or	otional)							
edundant parallel system		Up to	3 units							
nvironmental specification										
torage temperature	From -15 to 40	°C (for UPS with battery inside, see	"Storage of batteries in UPS and Batteries	attery Box" graphic)						
Vorking temperature		(recommended from 20 to 25 °C, for								
umidity		< 95% without								
laximum altitude			0 m							
P protection		IP.								
ertifications	CE (Standards: Low V	oltage Directive IEC EN 62040-1; EN	MC Directive IEC EN 62040-2; class	ification IEC EN 62040-3)						
/arranty										
tandard			s and 12 months batteries							
xtensions		Onti	onal							

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Accessories

7.10000001.100	
Model	Code
Bypass Box for Evo Dsp Plus TT 10-30 KVA	FGCBYP30TT
SNMP Interna for Evo Dsp Plus TT/TM	FGCNETAG7
Dry Contact for Evo Dsp Plus TT/TM	FGCEVODSDRY3
Kit Parallelo for Evo Dsp Plus TT 10 KVA	FGCKITPAREVDP3
Kit Parallelo for Evo Dsp Plus TT 15-20 KVA	FGCKITPAREVDP4

EVO DSP PLUS TM/TT BATTERY BOX

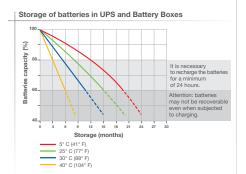
Main specifications

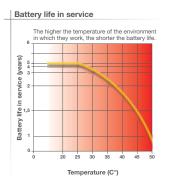
- Internal battery charger on every unit
- Units can be expanded infinitely
- Batteries with thermal circuit protection
- Easy connection to UPS
- Reduced dimensions
- Easy installation and maintenance











Details



Battery Box for Evo Dsp Plus TT/MM 10-15-20-30

- Thermal Fuse protecting the battery charger circuit
- 2 Power Socket for the battery charger circuit
- 3 Thermal switch for battery circuit4 Connector for the UPS Battery Box connection
- 5 Extra Battery Box connector



Specifications Battery Box for EVO DSP Plus TM/TT 10-15-20-30

Model	BATTERY BOX for EVO DSP PLUS TM/TT 10-15-20-30									
Code	FBBEVDP240/07	FBBEVDP240/14	FBBEVDP240/21	FBBEVDP240/09	FBBEVDP240/18	FBBEVDP240/27	FBBEVDP240/11	FBBEVDP240/22	FBBEVDP240/33	
Box dimension WxHxD			1	2	25 x 57 x 79,5 cr	n		1		
Pack dimension WxHxD	38 x 79.5 x 96 cm									
Weight	85 Kg	125 Kg	165 Kg	90 kg	135 ka	185 kg	95 Ka	145 Ka	195 Kg	
Equipped with	Battery charger power cable, battery cable to connect UPS to Battery Box									
Battery				J	, ,					
Туре	Lead acid, sealed, maintenance free									
Batteries number	20	40	60	20	40	60	20	40	60	
Nominal battery voltage	240Vdc									
Battery specification	12Vdc - 7,2Ah 12Vdc - 9Ah 12Vdc - 11/					12Vdc - 11Ah				
Internal battery charger				'			'			
Nominal input voltage					230Vac					
Nominal input frequency	50/60Hz									
Nominal charging voltage					274Vdc					
Max charging current	0,7A	1,4A	2,1A	0,9A	1,8A	2,7A	1,1A	2,2A	3,3A	
Protection										
Battery charge input	Thermal fuse									
Battery circuit	Magnetothermic switch									
Environmental specification										
Storage temperature	From -15 to 40 °C (for Battery Box with battery inside, see "Storage of batteries in UPS and Battery Box" graphic)									
Working temperature	From 0 to 40 °C (recommended from 20 to 25 °C, for a correct battery use see "Battery life in service" graphic)									
Humidity	< 95% without condensation									
Maximum altitude					3000 m					
IP protection	IP20									
Certifications	CE CE									
Warranty										
Standard	24 months electronic parts and 12 months batteries									

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