

EVO DSP Series

6 – 10 kVA On-Line UPS

CoolPower
Solutions

- On-Line Double Conversion Technology Transformless
- IGBT Rectifier
- DSP control (Digital Signal Processor)
- Multifunction graphic LCD Display
- Active Power Factor Correction (0.99)
- Generator compatible
- ECO mode



Specifications

Model	FGCEVODS06MM/12	FGCEVODS10MM/08
Nominal Power (kVA)	6	10
Nominal Active Power (kW)	4.8	8.0
Power Factor	0,8	
Technology	On-Line Double Conversion transformerless	
Nominal Input Voltage (Vac)	208Vac/220Vac/230Vac/240Vac	
Input Voltage Range (Ph-N)	176Vac-300Vac at 100% load, 110Vac-300Vac at 50% load	
Nominal Input Frequency (Hz)	50 / 60 (selectable)	
Input Frequency Range (%)	± 7 % for On-Line operation	
Input Power Factor	0,99	
Nominal Output Voltage (Vac)	208Vac/220Vac/230Vac/240Vac	
Static Voltage Regulation	± 1% at %100 Linear Load (online&battery mode)	
Voltage THD at rated linear load	<3% (linear load), <6% (Non-linear load)	
Crest factor	3:1	
Frequency (Hz)	50/60 Hz (selectable)	
Free Running Frequency (Hz)	±0.1	
Output waveform	Sinewave	
Overload (Line mode)	110% for 10 min, 130% for 1 min, >130% for 1 s	
Efficiency	>89% (Line mode), >88% (Batt mode), >98% (ECO mode)	
Number of phases (Bypass)	1 Ph + N	
Nominal Voltage (Bypass)	208Vac/220Vac/230Vac/240Vac	
Voltage range (Bypass)	Low threshold 110Vac-209Vac (configurable) - High threshold 231Vac-276Vac (configurable)	
Nominal Battery Voltage (Vdc)	240 Vdc	
Batteries: Sealed maintenance free Lead Acid	12 x 7.2 Ah	8 x 11 Ah
Autonomy (Typical)	12 h	8 h
Recharge Time (Typical)	6 - 8 hours	
Communication		
Interface (Communication Ports)	RS232 and USB	
Dry Contact Interface	Yes	
EPO	Yes	
Software	UPSILON 2000 (Compatible with OS WINDOWS, UNIX, LINUX, etc.)	
SNMP Interface	SNMP optional internal module (Compatible with OS WINDOWS, UNIX, LINUX, etc.)	
Redundant parallel system	Up to 4 units	
Storage Temperature Range	15-40 °C (recommended for longer battery life time)	
Operating Temperature Range	0-40 °C (20-25 recommended for longer battery life time)	
Relative Humidity Range	20-90% (non-condensing)	
Maximum Altitude (m)	1000 m	
Protection Level	IP20	
Certifications	CE (Standards: IEC EN 62040-1 security; EMC IEC EN 62040-2; IEC EN 62040-3 classification)	
Dimensions (WxHxD mm)	250 x 576 x 555	
Weight (kg)	81	83
Warranty	1 year	

Options

Model	FGCEVODS06MM/12	FGCEVODS10MM/08
Internal SNMP Interface	FGCNETAG7 (Software compatible with OS WINDOWS, UNIX, LINUX, etc.)	
Internal Dry Contact Interface	FGCEVODSDRY3	
External Bypass box	FGCBYP10MM2	
Parallel kit for EVO DSP 6	FGCKITPAREVODSP2	
Parallel kit for EVO DSP 10	FGCKITPAREVODSP3	

Battery boxes

Model	FGCEVODS06MM/12			FGCEVODS10MM/08		
Model FBBEVODS	240/07	240/14	240/21	240/11	240/22	240/33
Battery type (Internal 12V)	20x7.2Ah	40x7.2Ah	60x7.2Ah	20x11Ah	40x11Ah	60x11Ah
Nominal battery voltage	240 Vdc					
Internal battery charger						
Nominal input voltage	230 Vac					
Nominal input frequency	50 / 60 Hz					
Nominal charging voltage	274 Vdc					
Max charging current	0.7 A	1.4 A	2.1 A	1.1 A	2.2 A	3.3 A
Protection						
Battery charge input	Thermal fuse					
Battery circuit	Magnetothermic switch					
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					
Equipped with	Battery charger power cable, battery cable to connect UPS to battery box					
Box dimensions (WxHxD)	250 x 570 x 795 mm					
Weight	85 kg	124 kg	165 kg	95 kg	145 kg	195 kg
Certifications	CE					
Warranty	24 months for electronic parts and 12 months for batteries					

Main characteristics

- On-Line Double Conversion Technology Transformless
- IGBT Rectifier
- DSP control (Digital Signal Processor)
- Multifunction graphic LCD Display
- Active Power Factor Correction (0.99)
- Wide Input Voltage range
- Generator compatible
- EPO (Emergency Power Off)
- ECO MODE
- Frequency converter mode
- Output voltage and frequency front panel settable
- Programmable power management outlet
- Intelligent System to Charge the batteries
- Static and manual Bypass
- RS232 and USB communication ports
- SNMP or Dry Contact Intelligent slot
- Expandable up to 4 unit in parallel
- Communication Software
(Compatible with OS WINDOWS, UNIX, LINUX, etc.)
- High efficiency and performance
- Easy Installation and service

Use

Local Area Networks (LAN)
Data Centers, Industrial Processes,
Electromedical Applications,
Telecommunication, Internet farms