

EVO DSP RM Series

6 – 10 kVA On-Line UPS – Rack mount

CoolPower
Solutions

- On-Line Double Conversion Technology Transformerless
- Rectifier realized by IGBT technology
- Frequency converter operation
- Multifunctional LCD Display
- Active Power Factor Correction (0.99)
- Generator compatible
- ECO mode



Specifications

Model	FGCEVD06MMR/00	FGCEVD10MMR/00
Nominal Power	6 kVA	10 kVA
Nominal Active Power	4.8 kW	8.0 kW
Power Factor	0,8	
Technology	On-Line Double Conversion transformerless	
Nominal Input Voltage	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	
Voltage Regulation	± 1% at %100 Linear Load (online&battery mode)	
Voltage THD	<3% (linear load), <6% (Non-linear load)	
Crest factor	3:1	
Frequency	50/60 Hz (selectable)	
Frequency stability	±0.1 Hz	
Output waveform	Sinewave	
Overload (Line mode)	100-110% for 10 min, 130% for 1 min, >130% for 1 s	
Efficiency	>92% (Line/Battery 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 (selectable) - High threshold 231Vac-276Vac (selectable)	
Nominal Battery Voltage	240 Vdc	
Batteries: Sealed maintenance free Lead Acid	External battery box	
Recharge Time (Typical)	6 - 8 hours	
Extended autonomy	External battery box (optional)	
Communication		
Interface (Communication Ports)	RS232 and USB	
Dry Contact Interface	Yes (optional)	
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.)	
External bypass interface	Yes	
Storage Temperature Range	15-40 °C (recomended for longer battery life time)	
Operating Temperature Range	0-40 °C (20-25 recomended for longer battery life time)	
Relative Humidity Range	<95% without condensing	
Maximum Altitude	3000 m	
Protection Level	IP20	
Certifications	CE (Standards: IEC EN 62040-1 security; EMC IEC EN 62040-2; IEC EN 62040-3 classification)	
Dimensions (WxHxD)	438 x 133 x 580 mm	438 x 133 x 668 mm
Weight	17 kg	20 kg
Warranty	2 years for electronic parts	

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Options

Model	FGCEVD06MMR/00	FGCEVD10MMR/00
Internal SNMP Interface	FGCNETAG7	
Internal Dry Contact Interface	FGCEVODSDRY3	
External Bypass box	FGCBYP10MMRM	
Kit for rack UPS installation	FGCKITEVORT	

Battery boxes

Model	FGCEVD06MMR/00	FGCEVD10MMR/00
Model	FBBEVDR 240/07	FBBEVDR 240/11
Battery type (Internal 12V)	20 x 7.2 Ah	20 x 11 Ah
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	1.1 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	57 kg	65 kg
Certifications	CE	
Warranty	24 months for electronic parts	

Main characteristics

- On-Line Double Conversion Technology Transformless
- Rectifier realized by IGBT technology
- Multifunction graphic LCD Display
- Active Power Factor Correction (0.99)
- Wide Input Voltage tolerance
- Compatible with Generators
- EPO (Emergency Power Off)
- ECO MODE
- Frequency converter operation
- Output voltage and frequency can be regulated from the front panel
- Battery charging system controlled by microprocessor
- Static Bypass
- RS232 and USB communication ports
- Intelligent slot for SNMP or Dry Contact card
- UPS management software: UPSILON 2000 (Compatible with OS WINDOWS, UNIX, LINUX, etc.)
- High efficiency and low operating cost

Use

Local Area Networks (LAN)
Data Centers, Industrial Processes and Internet farms