

EVO DSP Series

1200 – 3600 VA 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	FGCEVODS1K2	FGCEVODS2K4	FGCEVODS3K6
Nominal Power (VA)	1200	2400	3600
Nominal Active Power (W)	840	1680	2520
Power Factor	0,7		
Technology	On-Line Double Conversion transformerless		
Nominal Input Voltage (Vac)	208Vac/220Vac/230Vac/240Vac		
Input Voltage Range (Ph-N)	160Vac-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	± 2% 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)	±0.2		
Output waveform	Sinewave		
Overload	110% only audible warning, 110-130% for 30 sec, >130% for 100 ms		
Efficiency	>92% (Line/battery mode), >98% (ECO mode)		
Number of phases	1 Ph + N		
Nominal Voltage	208Vac/220Vac/230Vac/240Vac		
Voltage range	Low threshold 170Vac-220Vac (configurable) - High threshold 230Vac-264Vac (configurable)		
Nominal Battery Voltage (Vdc)	36	72	72
Batteries: Sealed maintenance free Lead Acid	3 internal 12V 7,2Ah	6 internal 12V 7,2Ah	6 internal 12V 9,0 Ah
Autonomy (Typical)	10 min	10 min	8 min
Recharge Time (Typical)	6 - 8 hours		
Communication			
Interface (Communication Ports)	RS232 and USB		
Dry Contact Interface	Yes (Optional)		
EPO	Yes		
Audible Noise (at 1m) (dB)	< 40	< 45	
Software	UPSILON 2000 (Compatible with OS WINDOWS, UNIX, LINUX, etc.)		
SNMP Interface	SNMP optional internal module (Compatible with OS WINDOWS, UNIX, LINUX, etc.)		
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	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)	150 x 220 x 400	190 x 320 x 420	190 x 320 x 420
Weight (kg)	13	26	28
Warranty	2 years		

Options

Model	FGCEVODS1K2	FGCEVODS2K4	FGCEVODS3K6
Internal SNMP Interface	FGCNETAG7 (Software compatible with OS WINDOWS, UNIX, LINUX, etc.)		
Internal Dry Contact Interface	FGCEVODSDRY3		
External Bypass box	FGCBIPIEC		

Battery boxes

Model	FGCEVODS1K2		FGCEVODS2K4			FGCEVODS3K6		
Model FBBEVODS	36/14	36/28	72/07	72/14	72/21	72/09	72/18	72/27
Battery type (Internal 12V)	6 x 7,2Ah	12 x 7,2Ah	6 x 7,2Ah	12 x 7,2Ah	18 x 7,2Ah	6 x 9Ah	12 x 9Ah	18 x 9Ah
Nominal battery voltage	36 Vdc	36 Vdc	72 Vdc	72 Vdc	72 Vdc	72 Vdc	72 Vdc	72 Vdc
Internal battery charger								
Nominal input voltage	230 Vac							
Nominal input frequency	50 / 60 Hz							
Nominal charging voltage	41,1 V	41,1 V	82,2 V	82,2 V	82,2 V	82,2 V	82,2 V	82,2 V
Max charging current	1,4 A	2,8 A	0,7 A	0,9 A	1,4 A	1,8 A	2,1 A	2,7 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)	190 x 335 x 527 mm							
Weight	26 kg	38 kg	26 kg	38 kg	50 kg	29 kg	44 kg	59 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 Bypass
- RS232 and USB communication port
- SNMP or Dry Contact Intelligent slot
- Communication Software
(Compatible with OS WINDOWS, UNIX, LINUX, etc.)
- High efficiency and performance
- Easy Installation and service

Use

LAN Server, Data Centers, Industrial Processes, Electromedical Applications, Telecommunication, POS Systems And Cash tills.