

Step Down Voltage & Frequency Converter

Input Range: 180Vac - 285Vac
Input Frequency: 50Hz/60Hz Automatic
Output: 100V-110V-115V-120V (Selectable)
Output Frequency: 50Hz/60Hz (Selectable)

Available in 900W, 1350W, 1800W & 2340W Capacities



Model Numbers: EX-08, EX-12, EX-16, EX-21

Economy Step Down Series

This series is a double conversion Power Converter which produces stable pure sine wave voltage and frequency output (O/P). With the Converter, you can protect your equipment from most of the power problems, including power sags, power surges, and line noise, etc. With the common neutral topology, the Converter provides internal connection from AC I/P neutral to AC O/P neutral; thus, it does not need to use an isolation transformer to provide 0 volt from AC I/P neutral to O/P neutral. This feature will reduce the interference to loads of communication or video system.



EX-08 & EX-16



EX-16 & EX-21

Features

- Outstanding Performance & Reliability
- Common Neutral, Double Conversion Topology (O/P Neutral to I/P Neutral is 0 volts normally)
- Input Power Factor Correction
- Low Noise, Smart Cooling Fan Design
- High Efficiency, New Full-Bridge Inverter Design
- Automatic Restart After Overload Shutdown
- AC Input Generator Compatible
- Remote Emergency Power Off

Multifunction LCD Screen



STEP-DOWN Voltage and Frequency Converter (EX Series)

EX-8 / EX-12 / EX-16 / EX-21

Output

Capacity	1000VA/900W	1500VA/1350W	2000VA/1800W	2600VA/2340W
Output Voltage	100V/110V/115V/120V Selectable			
Voltage Waveform	Sine wave			
Crest Factor	3 : 1			
Output Frequency (sync to mains)	50/60Hz (selectable from LCD function button)			
Output Frequency (not sync to mains)	50±0.01Hz or 60±0.01Hz			
Regulation	±2% of selected output voltage (adjustable by using the setting software)			
OUTPUT CURRENT 100 V ~ 120 V	8.4 Amp	12.6 Amp	16.8 Amp	21.8 Amp
OUTPUT PEAK CURRENT (<250mS)	26 Amp	40 Amp	52 Amp	67 Amp
Over load protection	100%~129% for 60 seconds delay, then alarm; alarm for 60 seconds, then shutdown o/p; > 130%, alarm for 2 seconds, then shutdown o/p;			
Harmonic Distortion	<3% (at full resistive load)			
Efficiency	Up to 90%			

Input

Voltage Range	180V~285Vac			
Frequency Range	45~70Hz			
Input Current	6 Amp	9 Amp	12 Amp	15A
Power Factor	≥0.98			
Surge Current	<100A, 3mS			

Communications & Management

Control panel	LCD
Audible alarm	Overload alarm: Short-circuit alarm, Thermal alarm

Environmental and Safety

Operating Temp.	Up to 1500 meters: 0°C to 40°C (32°F to 104°F)
Transit/storage Temp.	-15°C to 55°C (5°F to 131°F)
Relative Humidity	5 - 95% non condensing
Operating Altitude	0 ~ 3000 meters
Audible noise	≤45 dBA (at 1 meter from surface of unit)
Safety Markings	CE
Quality control system	ISO9001

Physical

Dimension D x H x W (cm)	EX-8: 38×20×18cm/ 50.8 x 33 x 35.5cm (packing)	EX-8: 15×8×7in/ 20 x 13 x 14in (packing)
	EX-12: 45×20×18cm/ 55.8 x 33 x 35.5cm (packing)	EX-12: 18×8×7in/ 22 x 13 x 12in (packing)
	EX-16/EX-21: 51×20×18cm/ 63.5 x 33 x 35.5cm (packing)	EX-16/EX-21: 20×8×7in/ 25 x 13 x 14in (packing)
Weight (Net W. / Gross W.)	EX-8: 6.5kg / 7.94kg EX-12: 7kg / 9.30kg EX-16: 8kg / 11.57kg EX-21: 8.5kg / 11.79kg	EX-8: 14lbs / 17.5lbs EX-12: 15lbs / 20.5lbs EX-16: 18lbs / 25.5lbs EX-21: 19lbs / 26.0lbs