EDITELEKTRONiK

ESI 1P SERIES STATIC INVERTOR

Devices that supply your critical loads with constant voltage and frequency in places and conditions where main supply electric is not available, by converting DC voltage supplied from the battery or rectifier available in the system into 220 V AC. Products designed to be used in feeding electrical residential devices such as TV, refrigerator, computer systems, office devices such as server and printer, electric motors and electronic devices.

STRUCTURAL SPECIFICATIONS

- Production with single phase and three phase
- Power range of 1-120 kVA
- System that consistently feeds load with constant voltage and frequency of 220 V AC 50 Hz that it produces itself
- Output galvanic isolation transformer
- Fuse protection for input and output
- User friendly, easy and comprehensive LCD displayand mimic diagram (2x16 for single phase devices, 4x16 for three phases devices)
- Electronic protection in cases of over-temperature, short circuit, over current, over voltage and IGBT malfunction
- Static and modular structure with SMPS and IGBT technology
- Full sine wave output signal
- Highnon-linear load capacity
- High productivity and quite functioning with microprocessor controlled real PWM technology
- Special,durable cabinet, powder coated with standard color named RAL-7035
- Production with ISO9001:2008 Quality Management System
- Spare part providing guarantee for10 years
- Broad service network

TECHNICAL SPECIFICATIONS of ESI STATIC INVERTOR	
MODEL	ES1 1P SERIES SINGLE PHASE
POWER (kVA)	1-40 kVA
Power Factor	0,7
INPUT	
Voltage	12 VDC / 24 VDC / 48 VDC / 110 VDC / 220 VDC / 400 VDC Alternatively
Voltage Tolerance	+15%, -20%
OUTPUT	
Nominal Output Power	1-28 KW
Voltage	220 V AC Single Phase + Neutral
Voltage Tolerance	± 1%
Frequency	50 Hz ± 5%
Protection	Electronical short circuit protection
Over Load	101%-125% load 2 min., 126%-150% load 10 sec., 151% load output off in 0.2 sec.
Efficiency (100% Load)	> 85% - 87%
Crest Factor	3:1
THD Total Harmonic Distortion	< 3%
LCD Display	Input voltage, Output voltage, % load, Output frequency, Condition and Failure info, Over load, Over temperature, Input failure warning ext.
Communication	Through a software support and "Remote Management System"(RS-232 Communication port, Ethernet), the ability of monitoring and controlling (optional)
GENERAL	
Operating Temperature	-10 °C ~ +40 °C (-15 °C ~ +55 °C Opsiyonel)
Altitude	< 3000 m
Humidity	90% none condensed
Acoustic Noise	< 50 dB

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