

- ▶ **Compact**
- ▶ **Effective**
- ▶ **Flexible**
- ▶ **Communicable**
- ▶ **Assured Quality**



An ISO 9001 : 2000 Company

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ePOWER

Series

The e-Power Series includes 10-20-30-40-60-80-100-120-160 kVA three-phase models and uses double conversion on-line technology (VFI) with an isolation transformer on the inverter output.

The load is powered continuously by the inverter with a filtered, stabilised and regulated sinewave supply. The input and output EMI filters considerably increase the immunity of the load to mains disturbances and surges.

e-Power Series provides maximum protection for vital 'mission-critical' networks, security applications (electromedical) and industrial applications thanks to its outstanding mechanical and electrical design.

e-Power Series is supplied with software as standard and can be remotely monitored using the Teleguard system from anywhere in the world. Additional battery extension packs allow the standard battery runtime to be extended up to several hours.

CHARACTERISTICS

- reliable, filtered, stabilised and regulated sinewave output (double conversion on-line technology VFI according to EN62040-3 specifications) with filters for atmospheric disturbance suppression
- high reliability: IGBT technology, full microprocessor control with no-break static and manual bypasses, extremely high short-circuit current (2.8In single phase version, 4In three phase version) to ensure compatibility with the most difficult transformer applications (lighting, drives and industrial processes) and an isolation transformer on the inverter output
- maximum reliability and power availability - connect up to 6 units in parallel or N+1 redundancy, even of different power ratings.

MAIN FEATURES :

- ⇒ Wide input voltage range
- ⇒ Small footprint
- ⇒ LCD display
- ⇒ High efficiency
- ⇒ Internal Static and Maintenance / Manual Bypass Switch
- ⇒ Galvanic isolation during normal operation
- ⇒ Intelligent automatic battery test (every 24Hrs)
- ⇒ Compatible with all platforms
- ⇒ Onboard self diagnostic system
- ⇒ (Remote) Monitoring and Auto-shutdown software
- ⇒ SNMP adapter ready (option)
- ⇒ Unique parallel / parallel redundant capability
- ⇒ Ability to handle 100% phase imbalance on output while maintaining perfect balance on the input phases.

ADVANCED BATTERY SOLUTIONS :

- ⇒ Temperature compensation, prevents overcharging
- ⇒ Programmable battery test
- ⇒ Compatible with lead acid and nickel cadmium batteries
- ⇒ Heavy duty charger also supports large battery capacities



Local Area Networks (LAN)
Servers
Data centers
Internet centers (ISP/ASP/POP)
Industrial PLCs
Emergency devices (lights/alarms)
Electro-medical devices
Telecommunication devices
Industrial applications

- ⇒ high level diagnostics: event log with 128 messages, states, measurements and alarms - available from the built-in LCD in several languages
- ⇒ Simple to install:
- ⇒ capability to install the UPS into any distribution system (neutral not required on rectifier input)
- ⇒ capability to separate the rectifier/bypass power networks and to power these from two separate sources, without Galvanic isolation (necessary on UPS without an output transformer)
- ⇒ capability of regulating the output voltage (to offset voltage drops down long cable runs)
- ⇒ built-in automatic and manual battery test
- ⇒ feature, battery deep discharge protection and
- ⇒ temperature compensating charger
- ⇒ BACK FEED protection: to avoid energy feeding back into the mains supply should a fault occur.



UNIQUE LCD DISPLAY
Digital control

ADVANCED COMMUNICATION

- compatible with TeleGuard for remote maintenance
- advanced, multi-platform communication, for all operating systems and network environments: supervision and shut-down software included, with SNMP agent, for Windows 95, 98, NT 4.0, 2000, 2003, Me, XP, Mac OS X, 9.x, Linux, Novell operating systems. The UPS is supplied with a cable for direct connection to the PC (Plug and Play)
- RS232 serial port
- dry contact relays
- EPO (Emergency Power Off) shutdown input contact
- input for switching to bypass by remote signal
- LCD or LED-based remote control panel
- generator interface: enables desynchronisation of the UPS output from a generator supply which may be subject to phase and frequency variations. The interface also enables more economic use of the battery charger.

Web/SNMP

USB Card

True Relay Card

AS/400 Card



SPECIFICATION (eP Series 3Ø in 3Ø out) 10 to 160 kVA

MODELS	eP I3310	eP I3320	eP3330	eP3340	eP3360	eP3380	eP33100	eP33120	eP33160	
INPUT										
Rated power (kVA)	10	20	30	40	60	80	100	120	160	
Rated voltage (V)	400 Vac three-phase									
Voltage range	± 20%, 50 Hz ± 5%									
Rated frequency	50 ÷ 60 Hz auto sensing									
Power factor	0.9									
Distortion of the current absorbed	8% CLEAN version									
Soft start	0-100% in 10"									
BYPASS										
Rated current (A)	14	29	43	58	87	115	145	174	235	
Rated voltage (V)	400 Vac three-phase									
Permitted voltage range	± 15% (selectable from ± 10% to ± 25% from front panel)									
Rated frequency	50/60 Hz auto sensing									
Permitted frequency range	± 2% (selectable from ± 1% to ± 5% from front panel)									
Overload capacity Inx10ms	14	14	15	14	12	11	12	10		
Standard features	BackFeed protection; separate bypass line									
BATTERIES										
Type	Maintenance-free sealed lead-acid									
Maximum recharge current (A)	0,2xC10									
RECTIFIER OUTPUT										
Rated battery voltage	348 Vdc		384 Vdc				384 ~ 480Vdc			
Maintenance voltage	Variable acc. to temperature (-0,5 Vx°C)									
Ripple	<1%									
INVERTER OUTPUT										
Rated power (kVA)	10	20	30	40	60	80	100	120	160	
Rated voltage (kW)	7	14	24	32	48	64	80	96	128	
Number of phases	3 + N									
Rated voltage (V)	400									
Rated current (A)	14	29	43	58	87	115	145	174	235	
Output Power Factor	0.7 Standard		0.8 Standard, 0.9 Optional							
Crest factor (Ipeak/Irms)	3 : 1									
Waveform	Sine wave									
Static stability	± 1%									
Dynamic stability	± 5% in 5ms									
Frequency	same as the input (auto range)									
Overload	125% 150% 200% of the rated current for 10'/1'/7"									
Efficiency at rated load	92		93				94			
Short circuit current	2,8 In (three-phase) 4In (single-phase)									
ENVIRONMENTAL										
Remote Controls	ESD and Bypass									
Operating temperature	0 ÷ 40 °C									
Relative humidity	95% (non condensing)									
Colour	Light grey				Black					
Noise	48 to 54 dBA at 1m							53 to 60 dBA at 1m		
Protection rating	IP20									
Compliance	Safety EN 62040-1 EMC EN 62040-2 Directives 73/23-93/68-89/336 EEC EN 62040-3									
Rectifier maximum input current(A)	18	37	55	72	100	125	160	120	253	
Bypass input current(A)	14	29	43	58	87	115	145	174	235	
Weight (kg)	from 210	from 230	from 282	300	350	455	550	610	730	
Dimension (HxWxD) (mm)	1200x500x800		1200x555x720			1400x800x740		1400x1070x740		

eP I3310~eP I3320 & eP 3330~eP 33160 OPTIONS

Communication Software	JBUS/MODBUS converter module	LED remote status panel panel
Network adapter module on slot	UPS Group Synchroniser	LCD based remote control panel
Parallel Card	Interface for generator	Empty battery cabinets for prolonged runtime



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