

E2 Series UPS 30-200 kVA | Three phase

- Three Level Rectifier & Inverter
- Digital Signal Processing (DSP) Technology

✓ NEW TECHNOLOGY

- Three level topology
- High and stable online efficiency (up to 95%)
- High input PF (≥ 0.99)
- Low input current THD ($< 4\%$)
- High output PF (0.9)
- Low output voltage THD ($< 2\%$)
- Short response time ($< 2\text{ms}$)
- High input and output performance

✓ RELIABLE

- Parallel option up to 6 units
- Intelligent redundancy management (n, n+1 and n+x)
- After failure, high efficiency and safety test with regenerative mode
- Wide input voltage tolerances (-25%, +20%)
- Variable input low voltage depending on loading percentage (up to -36%)
- Automatic soft-start
- Adjustable rectifier soft-start time
- Cold start
- From panel and remote emergency power off
- Short circuit, lightning and surge protection

✓ USER-FRIENDLY

- Low investment and operating cost
- Short return on investment time
- Higher efficiency with eco-mode (up to 98%)
- Reduced weight/volume/footprint
- Touch screen TFT LCD user interface
- Multi language options up to 10 languages
- Advance data and event log
- 1024 real time event log and easy download
- Data analyzing over user interface
- Multi communication options
 - RS232/RS485 (standard)
 - USB Port (standard)
 - SNMP (standard)
 - Advance monitoring options (standard)
- Remote monitoring and management software
- Programmable dry contacts
- Optimum generator compatibility
- Long battery life with intelligent battery management
- Flexible battery count
- Automatic and manual battery test
- Smart fan control
- 10 years spare part warranty
- 7/24 technical support and customer service

✓ STANDARDS

- EN 62040-1 (Safety)
- EN 62040-2 (EMC)
- CE, ISO 9001:2008, ISO 14001, GOST



DATA CENTERS



INDUSTRIAL PLACES



ELECTRO-MEDICAL DEVICES



EMERGENCY DEVICES (ALARMS)



TELECOM APPLICATIONS



LOCAL AREA NETWORKS



E-BUSINESS (SERVERS FARMS, ISP/ASP/POP)



INDUSTRIAL PROCESSES



PERSONAL COMPUTERS



SMALL COMPUTERS NETWORK



SERVERS



CASH REGISTERS



THREE LEVEL TECHNOLOGY



ELEN

E2 SERIES UPS TECHNICAL SPECIFICATIONS

POWER	Sn (kVA)	30	40	60	80	100	120	160	200
	Pn (KW)	27	36	54	72	90	108	144	180
INPUT	Voltage	380 / 400 / 415 Vac 3ph + N							
	Voltage Tolerances	- 15%, +20% (without downgrading), -36% (depending on load percentage)							
	Frequency	50 / 60 Hz							
	Frequency Tolerances	± 10%							
	Power Factor	≥ 0,99							
	THD _i	≤ 4%							
BYPASS	Dual Input	Optional							
	Voltage	380 / 400 / 415 Vac 3ph + N							
	Voltage Tolerances	Adjustable up to -25%, +20%							
	Frequency	50 / 60 Hz							
	Frequency Tolerances	adjustable up to ± 10%							
	Maintenance Bypass	Standard							
OUTPUT	Voltage	380 / 400 / 415 Vac 3ph + N							
	Voltage Tolerances	± 1% (static load), dynamic load in accordance with VFI-SS-11							
	Frequency	50 / 60 Hz (selectable)							
	Frequency Tolerances	± 0.1% (self-synchronize), ± 1% (mains-synchronize, adjustable up to ± 5%)							
	Power Factor	0.9							
	THD _v	≤ 2% (linear load), ≤ 5% (non-linear load)							
	Crest Factor	3:1							
OVERLOAD CAPACITY	≤ 110%	up to 60 min.							
	≤ 130%	up to 10 min.							
	≤ 150%	up to 1 min.							
EFFICIENCY	Online	up to 95.5%							
	Eco-mode	up to 98%							
GENERAL	Technology	Three level rectifier & inverter							
	Control	DSP, SPWM							
	Paralleling Units	Up to 6							
	Communication	SNMP(Optional), USB, RS232, RS485, MODBUS							
	Remote Monitoring	Remote panel(Optional)							
	Programmable Dry Contacts	3 (standard)							
	Programmable Custom Inputs	4							
	Charge With Temperature Compansation	Optional							
	Cold Start	Standard							
	Touch Screen TFT LCD User Interface	Standard							
ENVIRONMENT	Operating Temperature	from 0 °C up to +40 °C (from 20 °C to 25 °C for maximum battery life)							
	Relative Humidity	0% - 85% (without condensation)							
	Maximum Altitude	≤ 2000 m							
	Noise Level (dB (A))	<60			<65				<70
UPS CABINET	Dimensions (W x D x H) (mm)	480 x 895 x 1225	480x895x1225	480x1000x1225	705 x 1060 x 1850				
	Degree of Protection	IP20							
	Colour	RAL7012							
BATTERY	Battery Quantity	40 ± 4 (adjustable)							
	Internal Battery Quantity (max.)	88							-
	Internal Battery Capacity (Ah)	7-9							-
STANDARDS	Safety	EN 62040-1							
	EMC	EN 62040-2							
UPS LIFETIME		10 YEARS							