

E1 Series UPS 10-20 kVA | Three phase

- Three Level Inverter
- Digital Power Factor Correction

✓ NEW TECHNOLOGY

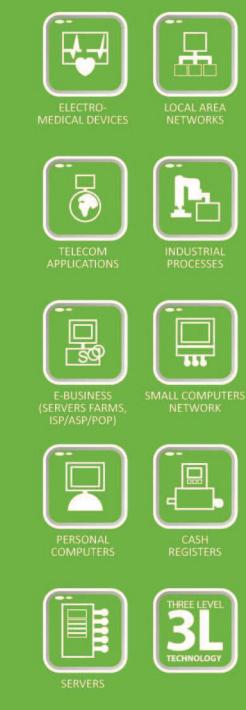
- Three level inverter
- High and stable online efficiency (up to 94%)
- High input PF (≥ 0.99)
- Low input current THD (<5%)
- Low output voltage THD (<2%)
- Short response time (<2ms)
- High input and output performance

✓ RELIABLE & USER FRIENDLY

- Parallel option up to 6 units
- Intelligent redundancy management (n, n+1 and n+x)
- Programmable high overload capacity
- Short circuit protection
- Low investment and operation cost
- Short return on investment time
- Highest efficiency eco-mode (up to 98%)
- Reduced weight/volume/footprint
- Wide input voltage tolerances (-25%, +20%)
- Cold start
- Energy-saving sleep mode
- Short circuit, lightning and surge protection
- Remote emergency power off (EPO)
- Generator compatibility
- 1-7A adjustable battery charger
- Extended battery life with intelligent battery management
- Automatic and manual battery test
- LCD interface
- Remote monitoring panel (optional)
- 512 real time event log
- Battery capacity, load percentage and ambient temperature display
- SNMP (optional), RS232, RS485, Modem, MODBUS communication
- Remote monitoring and management software
- Dry contacts and custom inputs
- Smart fan control
- Internal battery
- Manual bypass
- Easy installation and maintenance
- 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



ELEN

| E1 SERIES UPS TECHNICAL SPECIFICATIONS | | | |
|--|---------------------------------|---|----|
| | Power (kVA) | 10 | 15 |
| INPUT | Voltage | 380 / 400 / 415 Vac 3ph + N | |
| | Voltage Tolerances | - 25%, +20% (without downgrading) | |
| | Frequency | 50 / 60 Hz | |
| | Frequency Tolerances | ± 10% | |
| | Power Factor | ≥ 0,99 | |
| | THD _i | < 5% | |
| 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 | |
| | Frequency Tolerances | ± 0.1% (self-synchronize), ± 1% (mains-synchronize) | |
| | Power Factor | 0,8 | |
| | THD _u | ≤ 2% (linear load), ≤ 5% (non-linear load) | |
| OVERLOAD CAPACITY | Crest Factor | 3:1 | |
| | ≤ 110% | 60 min. | |
| | ≤ 130% | 10 min. | |
| | ≤ 150% | 1 min. | |
| EFFICIENCY | ≤ 160% | 10 sec. | |
| | Online | up to 94% | |
| GENERAL | Eco-mode | up to 98% | |
| | Technology | Three level inverter, PFC | |
| | Control | Dual-DSP, SPWM | |
| | Paralleling Units | Up to 6 units | |
| | Communication | SNMP(Optional), RS232, RS485, MODEM, MODBUS | |
| | Remote Monitoring | SNMPView, Remote monitoring panel(optional) | |
| | Dry Contacts | Programmable 3 dry contacts | |
| | Custom Inputs | Generator, Remote EPO, Remote Start/Stop | |
| | Cold Start | Standard | |
| ENVIRONMENT | Maintenance Bypass | Standard | |
| | 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 | |
| UPS CABINET | Noise Level | < 55 dB (A) | |
| | Dimensions (W x D x H) (mm) | 255 x 730 x 870 | |
| | Weight (kg) | 48 | 50 |
| | Degree of Protection | IP20 | |
| BATTERY | Colour | RAL7012 | |
| | Internal Battery Quantity | 30 | |
| | Internal Battery Capacity (Ah) | 7-9 | |
| STANDARDS | External Battery Cabinet Socket | Standard | |
| | Safety | EN 62040-1 | |
| | EMC | EN 62040-2 | |
| UPS LIFETIME | | 10 YEARS | |