E1 Series UPS 10-20 kVA Three phase

Three Level Inverter
Digital Power Factor Correction

WINEW TECHNOLOGY

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

👽 RELIABLE & USER FRIENDLY

- Parallel option up to 6 units
- $^{\circ}$ 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
- $^{\circ}$ Battery capacity, load percentage and ambient temperature display
- SNMP (optional), RS232, RS485, Modem, MODBUS communication
- Remote monitoring and management software
- $^{\circ}$ Dry contacts and custom inputs
- Smart fan control
- Internal battery
- Manual bypass
- Easy installation and maintenance
- ° 10 years spare part warranty
- $^{\rm o}$ 7/24 technical support and customer service

STANDARDS 🗸

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











E1 Series UPS 10-20 kVA

	E1 SERIES UPS TECHNICAL SPECIFICATIONS	
	Power (kVA)	10 15 20
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
	THDi	< 5%
OUTPUT	Voltage	380 / 400 / 415 Vac 3ph + N
	Voltage Tolerances	\pm 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
	THDψ	\leq 2% (linear load), \leq 5% (non-linear load)
	Crest Factor	3:1
OVERLOAD CAPACITY	≤ 110%	60 min.
	≤ 130%	10 min.
	≤ 150%	1 min.
	≤ 160%	10 sec.
EFFICIENCY	Online	up to 94%
	Eco-mode	up to 98%
GENERAL	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
	Maintenance Bypass	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	< 55 dB (A)
UPS CABINET	Dimensions (W x D x H) (mm)	255 x 730 x 870
	Weight (kg)	48 50
	Degree of Protection	IP20
	Colour	RAL7012
BATTERY	Internal Battery Quantity	30
	Internal Battery Capacity (Ah)	7-9
	External Battery Cabinet Socket	Standard
STANDARDS	Safety	EN 62040-1
	EMC	EN 62040-2
UPS LIFETIME		10 YEARS

ELEN reserve the right of changing information in this without report.