



Networks & critical applications

E4 LCD TM ■ From 10 to 30K VA

E4 LCD TM range is designed to protect critical networks, data centers, server groups and industrial applications.

The most reliable of technologies

The On Line Double Conversion technology delivers a perfect sinusoidal output current and provides thorough and effective protection of critical devices. In addition, E4 LCD TM UPSs generate an upgraded power factor reaching 0.8, thereby offering higher performance and improved efficiency for vital applications. Many features also participate in this high level of performance including:

- DSP technology that offers space and weight saving by replacing cumbersome transformers, relays and other mechanical switches while also ensuring an improvement in the overall performance and efficiency of the product (volume-power ratio).
- Active power factor correction in all phases

Practical design

UPS status is seen at a glance on an intuitive LCD screen. The UPS is controlled by a simple control panel on the front with 3 or 4 buttons: ON/OFF, operating mode configuration, voltage setting, programmable outlet setting...

Communication

USB or RS 232 communication ports and SNMP interface enable an E4 LCD UPS to communicate with the various stations and IT servers it is protecting.

The multiple communications function should be noted: USB or RS232 ports can therefore operate simultaneously with the SNMP interface.

Security & maintenance

- Emergency Power Off (EPO) : This function ensures the safety of personnel and hardware in the event of fire or any other emergency situation by triggering the total and immediate shutdown of the UPS.
- Maintenance bypass

Programmable outlets for load and backup time management

Programmable outlets allow users to easily control different load groups separately. They will therefore be able to increase the backup time on the most strategic and vital hardware, during a power outage, by stopping non-critical hardware connected to programmable outlets. These outlets are easily managed via the LCD screen.

50/60 Hz frequency converter mode

The output frequency can be set to 50 Hz or 60 Hz independently of the input frequency making it easier to adapt to specific hardware.



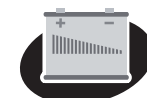
On Line Double Conversion technology



LCD screen



Redundant parallelizable (option)



Extended backup time version available



Eco Mode (efficiency up to 97%)

GENERAL SPECIFICATIONS



| E4 LCD TM 10K (S) | E4 LCD TM 15K (S) | E4 LCD TM 20K (S) | E4 LCD TM 30K (S) |
|-------------------|-------------------|-------------------|-------------------|
|-------------------|-------------------|-------------------|-------------------|

GENERAL SPECIFICATIONS

| | | | | |
|---------------------|---------------------------------------|-----------|-----------|-----------|
| Technology | On Line Double Conversion 3 ph / 3 ph | | | |
| Power VA | 10 000 VA | 15 000 VA | 20 000 VA | 30 000 VA |
| Power W | 8 000 W | 12 000 W | 16 000 W | 24 000 W |
| Power factor | 0,8 | | | |

PHYSICAL

| | | | | | |
|---------------------------|----------------------------------|-----------------|-----------------|-----|------------------|
| Standard model | Dimensions D x W x H (mm) | 592 x 250 x 576 | 815 x 250 x 826 | | 815 x 300 x 1000 |
| | Net weight (kg) | 83 | 164 | 164 | 230 |
| Long run model (S) | Dimensions D x W x H (mm) | 592 x 250 x 576 | | | 815 x 250 x 826 |
| | Net weight (kg) | 28 | 40 | 40 | 62 |

INPUT

| | |
|------------------------|--|
| Voltage | 3 x 400 VAC (Phase-Phase) + Neutral |
| Voltage range | 305-478 VAC (3-phase) at 100% load ; 190-520 VAC (3-phase) at 50% load |
| Frequency range | 46~54 Hz or 56~64Hz |
| Phase | 3-phase with neutral and ground |
| Power factor | ≥ 0.99 at 100 % load |

OUTPUT

| | | |
|--|---|------|
| Voltage | 230V | |
| AC Voltage Regulation (battery mode) | ± 1% | |
| Frequency Range (Synchronized Range) | 46~54Hz or 56~64Hz | |
| Frequency Range (Batt. Mode) | 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz | |
| Current Crest Ratio | 3:1 (max.) | |
| Harmonic Distortion | < 2 % THD (Linear Load) ; < 5 % THD (Non-linear Load) | |
| Transfer time | AC Mode to Batt. Mode | 0 ms |
| | Inverter to bypass | 0 ms |
| Wave form | Pure Sinewave | |
| Output terminal standard / programmable | yes/yes | |

EFFICIENCY

| | | | | |
|---------------------|-------------|-----|-----|-----|
| AC Mode | 89% | 89% | 89% | 89% |
| Battery Mode | 86% | 88% | 87% | 87% |
| Eco Mode | environ 97% | | | |

BATTERY

| | | | | | |
|---------------------------|--------------------------------|---|---------------------------------|----|---------------------------------|
| Standard model | Battery type | 12V 9Ah | | | |
| | Number | 20 (18 - 20 pcs adjustable)* | 20(18 - 20 pcs adjustable)* x 2 | | 20 (18 - 20 pcs adjustable)*x 3 |
| | Typical Recharge Time | 9 hours recover to 90% capacity | | | |
| | Charging Current (max.) | 1A | 2A | 2A | 2A |
| Long run model (S) | Battery type | Depending on the capacity of external batteries | | | |
| | Charging Current (max.) | 4A | 8A | 8A | 8A |

DISPLAY

| | |
|-------------------|--|
| LCD screen | UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions |
|-------------------|--|

ALARMS SONORES

| | |
|---------------------|-----------------------------|
| Battery mode | Sounding every 4 seconds |
| Low battery | Sounding every seconds |
| Overload | Sounding twice every second |
| Default | Continuously sounding |

MANAGEMENT / COMMUNICATION

| | |
|---|---|
| RS-232 & USB Communication Ports | Supports Windows2 2000/2003/XP/Vista/2008, Windows2 7/8, Linux, Unix, and MAC |
| Optional SNMP | Power management from SNMP manager and web browser |

ENVIRONMENT

| | | |
|---------------------------|--------------------------------------|--------------------------|
| Operation Humidity | 0-95 % RH @ 0- 40°C (Non-condensing) | |
| Noise Level | Less than 58dB @ 1 Meter | Less than 60dB @ 1 Meter |

NORMES

| | |
|-----------------|---------|
| Standard | CE RoHS |
|-----------------|---------|

SALES INFO

| | | | | |
|--|-----------------|-----------------|-----------------|-----------------|
| Warranty | 2 ans | | | |
| Standard versions gencods | 3700085 65760 7 | 3700085 65761 4 | 3700085 65762 1 | 3700085 67216 7 |
| Standard versions gencods (without battery) | - | - | - | 3700085 67219 8 |
| Extended backup time versions gencods (S) | 3700085 65757 7 | 3700085 65758 4 | 3700085 65759 1 | 3700085 67217 4 |

*When using internal batteries from 18-19, the unit will de-rate according to the below formula: $P = P_{Rating} \times N/20$.

■ From 10 to 30K VA



Warranty

Two-year warranty.



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