

The single-phase UPS for critical applications



centiel
continuous power availability

EssentialPower™ X1 T

The single-phase UPS
from 1 kVA to 10 kVA



EssentialPower™ X1 T

EssentialPower™ is the online, true double-conversion, single-phase UPS (uninterruptible power supply).

From 1 to 10kVA, EssentialPower™ provides reliable power for small network devices, servers, point-of-sale, workstation clusters and light-industrial installations.

Product features 1-3 kVA

- Battery discharge level control, settable 30-100% of the available capacity
- Precise backup time estimation
- 2 programmable IEC outlets plus two Schuko
- Cold start to activate loads without mains
- Multiple operation modes to maximize energy efficiency
- Strong overload capability to improve CB's selectivity
- Manually activated extra service check
- Firmware upgradable for updates and customization
- Remote EPO and On/Off functions
- RS232 and USB port, comm. slot
- CEI 0-16 compliant



Extreme battery lifetime thanks to:

- wide input voltage tolerance (110-300V)
- wide input frequency tolerance (44-66Hz)
- intelligent battery management

Product features 6-10 kVA/kW

- Low running costs: the high efficiency VFI and ECO features minimise energy consumption.
- User-friendly monitoring software can be downloaded free and is compatible with the main operating systems, for: monitoring functions, diagnostics, controlled shutdown of loads in the event of faults.
- Cold start.
- Wide input voltage and frequency ranges reduce battery switching, thereby increasing battery life and efficiency.
- Flexible battery configuration to suit your uptime requirements.
- Accurate calculated remaining uptime is shown on the display.
- Hot-swappable batteries: the batteries can be replaced while the UPS is running.
- Version with internal Transformer available upon request.



Maximum power availability: kVA=kW

Up to 4 units in parallel

EssentialPower™ X1 T

1-3 kVA



| | | 1kVA UPS-EP001-11-I03-T | 2kVA UPS-EP002-11-I06-T | 3kVA UPS-EP003-11-I06-T | |
|---------------------------------|---|--|----------------------------|----------------------------|-----------|
| Power | VA | 1000 | 2000 | 3000 | |
| | W | 900 | 1800 | 2700 | |
| Input | Rated voltage* | 110–300 Vac | | | |
| | Frequency | 44–66 Hz | | | |
| | Power factor | >0.98 | | | |
| Output | Rated voltage | 200/208/220/230/240 Vac | | | |
| | Voltage distortion | <3% with linear load I, <7% with distorting load | | | |
| | Voltage stability | ±1% | | | |
| | Frequency | 50/60 Hz (selectable) | | | |
| | Frequency stability | ±1 Hz or ±3 Hz (selectable) | | | |
| | Power factor | 0.9 | | | |
| | Crest factor | 3:1 | | | |
| | Waveform | Pure sine wave | | | |
| | Output sockets | | 2xIEC-C13 | 4xIEC-C13 | 6xIEC-C13 |
| | | | 2 Schuko | 2 Schuko | 2 Schuko |
| Efficiency | VFI mode | Up to 92% | | | |
| | ECO mode | Up to 96.5% | | | |
| General | Dimensions (WxDxH) mm | 154 x 382 x 211 | 192 x 470 x 250 | 192 x 451 x 320 | |
| | Weight (kg) | 11.6 | 22.2 | 29.8 | |
| | Alarms | Audible and visual alarm alerts for: power failure, low battery, bypass transfer, and UPS fault. | | | |
| | Protection | Overload, overheating, short circuit, deep discharge, battery overcharging. | | | |
| | Operating mode | Multi-mode: VFI, ECO, Constant voltage constant frequency (CVCF) output. | | | |
| | Cold start from the battery without mains power | Included | | | |
| Battery | Battery type | 12V VRLA, AGM (maintenance-free lead acid battery) | | | |
| | Uptime with internal battery (in min) | 50% load | 14 | 15 | 12 |
| | | 100% load | 5 | 5 | 4 |
| | Charging time (90%) | 4–6 hours | | | |
| Environmental Parameters | Operating temperature** | 0–40°C | | | |
| | Relative humidity | 0%–90% (non-condensing) | | | |
| | Altitude (a.s.l.) | <1000 m with no power derating, >1000 m with 1% derating for every 100 m. | | | |
| | Audible noise at 1 m. | ≤50 dBA | | | |
| Connectivity | Built-in communication ports | USB, RS232, EPO and additional slot for optional cards | | | |
| | User interface | LED, LCD and function keys (parameters: voltage, frequency, load percentage, battery percentage, output voltage, UPS temperature). | | | |
| | Optional accessories | Cards: SNMP, RS485 ModBus, and dry relay contacts | | | |
| | Compatible software platforms | Microsoft Windows, Linux, Mac OS, VMware | | | |
| Regulations | Standards | IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3 | | | |
| | Marking | CE | | | |

* Depending on the load percentage ** To be verified accordingly to the battery parameters

EssentialPower™ X1 T

6-10 kVA/kW



| | | 6kVA UPS-EP006-11-I00-T/UPS-EP006-11-I16-T | 10kVA UPS-EP010-11-I00-T/UPS-EP010-11-I20-T | |
|---|---|--|--|----|
| Power | VA | 6000 | 10000 | |
| | W | 6000 | 10000 | |
| Input | Rated voltage* | 110-280 Vac | | |
| | Frequency | 45-70 Hz | | |
| | Power factor | >0.99 | | |
| Output | Rated voltage | 200/208/220/230/240 Vac selectable | | |
| | Voltage distortion | <2% with linear load, <7% with distorting load | | |
| | Voltage stability | ±1% | | |
| | Frequency | 50/60 Hz (selectable) | | |
| | Frequency stability | ≤ 0.2% (free running) | | |
| | Power factor | 1 | | |
| | Crest factor | 3:1 | | |
| | Waveform | Pure sine wave | | |
| | Output sockets | Terminal blocks | | |
| | Efficiency | VFI mode | Up to 94% | |
| ECO mode | | Up to 98% | | |
| General | Dimensions (WxDxH) mm | 240x700x513 | 288x700x513 | |
| | Weight with / without batteries (kg) | 26/60.4 | 41/83 | |
| | Alarms | Audible and visual alarm alerts for: power failure, low battery, bypass transfer, and UPS fault. | | |
| | Protection | Overload, overheating, short circuit, deep discharge, battery overcharging. | | |
| | Operating mode | Multi-mode: VFI, ECO, frequency converter (CVCF) | | |
| | Cold start from the battery without mains power | Included | | |
| Battery | Battery type | 12V VRLA, AGM (maintenance-free lead acid battery) | | |
| | Uptime with internal battery (in min) | 50% load | 12 | 11 |
| | | 100% load | 4 | 4 |
| | Charging time (90%) | 4-6 hours | | |
| Battery expansion module dimensions (WxDxH) | 288x663x661 | | | |
| Environmental Parameters | Operating temperature ** | 0-40°C | | |
| | Relative humidity | 0%-90% (non-condensing) | | |
| | Altitude (a.s.l.) | <1000 m with no power derating, >1000 m with 1% derating for every 100 m. | | |
| | Audible noise at 1 m. | ≤60 dBA | | |
| Connectivity | Built-in communication ports | USB, RS232, EPO On/Off contact, and additional slots for optional cards | | |
| | User interface | LCD and function keys (parameters: voltage, frequency, load percentage, battery voltage, output voltage, estimated uptime, UPS temperature). | | |
| | Optional accessories | Cards: SNMP, RS485 ModBus, dry relay contacts | | |
| | Compatible software platforms | Microsoft Windows, Linux, Mac OS, VMware | | |
| Regulations | Standards | IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3 | | |
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* Depending on the load percentage ** To be verified accordingly to the battery parameters