

OL3M-UPS™ Series

E2L™

P222E



The OL3M-UPS Series is a three phase transformer-less parallel redundant online UPS. Each unit is made up of a number of rackable modules connected in parallel in order to offer higher reliability and much faster service. In the event of any failure of a module the remaining module remain operational.

More than one UPS can be placed in parallel for N+X redundancy mode allowing customer to upgrade their UPS according to their needs.

The OL3M-UPS Series uses the latest DSP control technology, with an easy-to-operate LCD display, programmable battery voltage, intelligent charger with settable charge currents, and Megatec / Modbus protocol.

The OLM3-UPS Series is an ideal solution for your server, bank, industrial equipment, data center, telecom, IT equipments and other mission-critical applications requiring a heavy duty and reliable power source.

Modular 3 Phase UPS System



OL3M - UPS Series

Features

- DSP-controlled Technology
- Parallel Redundancy up to 4 Units
- Wide Input Voltage and Frequency Windows
- Protection against reverse power
- Easy-to-operate LCD display for user's friendly operation
- High Power Density for space saving
- Unity Power Factor and Low Input Distortion
- Output Power Factor at 0.9
- ECO Mode for energy saving
- Common or Separate Battery
- Programmable Battery Voltage from $\pm 192\text{Vdc}$ to $\pm 240\text{Vdc}$
- Intelligent charge modes with smart charge current adjustment.
- Megatec/Mod Bus protocol supported
- Versatile communication interfaces provided for different applications
- Superior overload capability
- Programmable control and monitoring software



Benefits

Heavy Duty solutions for Industrial applications

The OL3M-UPS includes reverse power protection allowing it to be easily used to power for high power motors and industrial machine that may return power to the source. The OL3M-UPS series is also capable of very high starting power (up to 150%) making it ideal for industrial applications.

One Spare Part to service any size

OL3M-UPS is made up of the modular racks of 30KVA or 40KVA (for units above 30KVA) allowing the customer to service multiple units using only spare part.

Remains operational in the event of a failure

In the rare event of one rack failure, the UPS remains operational with the remaining racks. If the load is less than the remaining unit, it will not be interrupted. Only an alarm will sound and customer will be notified by sms or email of the fault. As a result the OLM-UPS Series is ideally suited for critical solutions where interruptions can not be tolerated.



Control Panel

Technical Specifications

| Model | | | OL3M-100KI | OL3M-120KI | OL3M-160KI | OL3M-200KI | OL3M-250KI | OL3M-300KI | OL3M-400KI | OL3M-500KI |
|-------------------------|----------------------------|------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Capacity | | | 100KVA 90KW | 120KVA 108KW | 160KVA 144KW | 200KVA 180KW | 250KVA 225KW | 300KVA 270KW | 400KVA 360KW | 500KVA 450KW |
| Input | Nominal voltage | | 380/400/415Vac, (3Ph+N+PE) | | | | | | | |
| | Operating voltage range | | 208~478Vac | | | | | | | |
| | Operating frequency range | | 40Hz-70Hz | | | | | | | |
| | Power factor | | ≥ 0.99 | | | | | | | |
| | Harmonic distortion (THDi) | | ≤3% (100% nonlinear load) | | | | | | | |
| | Bypass Voltage Range | | Max. voltage: 220v +25% (optional +10%, +15%, +20%) 230v 20% (optional +10%, +15%) 240v 15% (optional +10%) Min. Voltage:-45% (optional -20%, -30%) frequency protection range: ±10% | | | | | | | |
| | Generator Input | | Support | | | | | | | |
| Output | Output Voltage | | 380/400/415Vac (3PH+N+PE) | | | | | | | |
| | Voltage regulation | | ±2% | | | | | | | |
| | Power Factor | | 0.9 | | | | | | | |
| | Output frequency | | 1. Line Mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (optional) 2. Battery Mode: (50/60 ±0.2%) Hz | | | | | | | |
| | Crest Factor | | 3:1 | | | | | | | |
| | Harmonic distortion (THD) | | ≤2% with linear load ≤5% with non linear load | | | | | | | |
| | Efficiency | | 95% at normal mode | | | | | | | |
| Battery | Voltage | | Standard unit: ±216V DC; long time unit optional voltage: ±192V/±204V/±216V/±228V/±240V DC | | | | | | | |
| | Charge Current (A) | | 30A (MA λ.) | | 40A (MA λ.) | 50A (MA λ.) | 70A (MA λ.) | 80A (MA λ.) | 100A (MA λ.) | 130A (MA λ.) |
| System Features | | | | | | | | | | |
| Transfer Time | | | utility to battery: 0ms; Utility to bypass: 0ms | | | | | | | |
| Protection | Overload | AC Mode | Load ≤110%: last 60min, ≤125%: last 10 min, ≤150%:last 1min, ≥150% shut down UPS immediately | | | | | | | |
| | | Batt. Mode | Load ≤110%: last 10min, ≤125%: last 1 min, ≤150%:last 5S, ≥150% shut down UPS immediately | | | | | | | |
| | Short Circuit | | Hold whole system | | | | | | | |
| | Overheat | | line mode: Switch to Bypass; Backup Mode: Shut down UPS immediately | | | | | | | |
| | Battery Low | | Alarm and switch off | | | | | | | |
| | Self-Diagnostics | | Upon power on and software control | | | | | | | |
| | EPO(Optional) | | Shut down UPS immediately | | | | | | | |
| | Battery | | Advanced battery management | | | | | | | |
| | Noise Suppression | | Complies with EN62040-2 | | | | | | | |
| Alarms | Audible And Visual | | Line failure, battery low, overload, system fault | | | | | | | |
| Display | Status Led & LCD | | Line mode, bypass mode, battery low, battery bad, overload & UPS fault | | | | | | | |
| | Reading On The LCD | | Input voltage, input frequency, output voltage, output frequency, load percentage, battery voltage & inner temperature | | | | | | | |
| Communication Interface | | | USB, RS232, RS485, Parallel, Intelligent slot, Relay card (optional), Battery temperature sensor (optional) | | | | | | | |
| Environment | Operating Temperature | | 0°C~40°C | | | | | | | |
| | Storage Temperature | | -25°C~+55°C | | | | | | | |
| | Humidity | | 0~95% non condensing | | | | | | | |
| | Altitude | | <1500m | | | | | | | |
| | Noise level | | 70db | | | | 73db | | | |
| Other | Unit Dimensions (W*D*H) | | 600*850*1600 | | | | 600*850*2000 | | 1200*850*2000 | |
| | Weight (Kg) | | 345 | 345 | 379 | 413 | 514 | 575 | 842 | 940 |
| Safety Control | | | IEC/EN62040-1,IEC/EN60950-1 | | | | | | | |
| EMC | | | IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8 | | | | | | | |

SH-UPS™



OL3M-UPS™



OL3MC-UPS™



E24 offers a wide range of UPS Systems, batteries and related accessories from 600VA up to 10MVA.

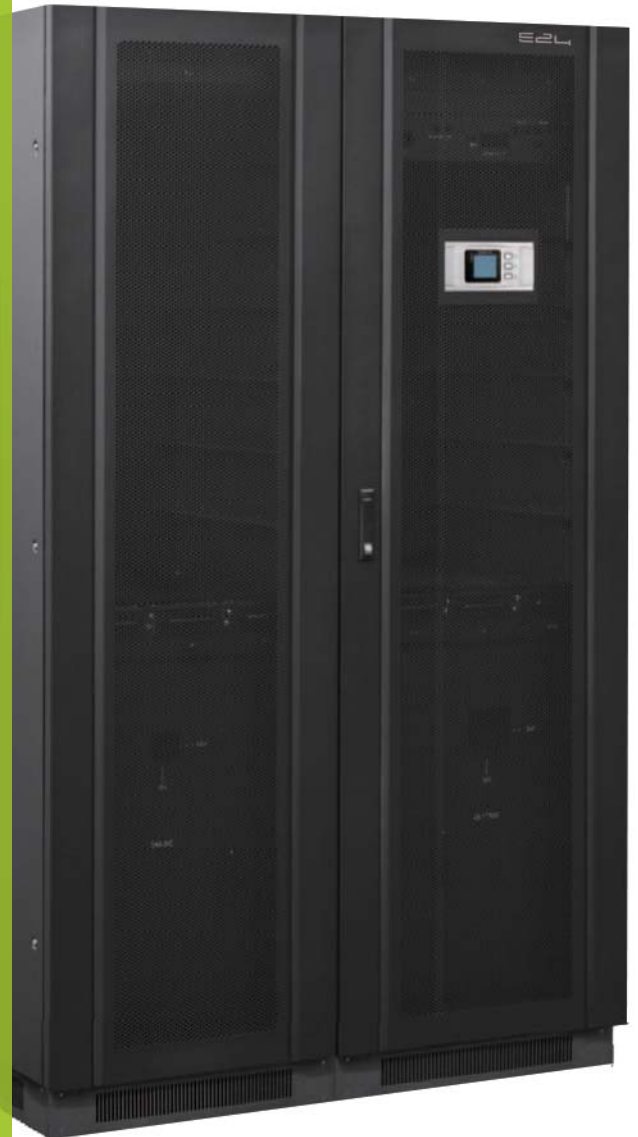
E24 Offers a Comprehensive and Modular Range Of Products For Building Easy, Flexible & Evolutive Solutions in Energy Generation, Conversion and Storage

E24 products dynamically evolve with the lifestyle and workstyle of its customers while easing the installation process.

E24 products are conceived in modules allowing for an easy upgrade to adjust with the needs of the customers.

Being modular and easy to connect E24 products allow installers to easily configure the required modules for an optimal solution while offering easy upgrade options.

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Ordering Information

| Ref Number | Description |
|--------------|--|
| OL3M-30KI | On-Line UPS, DSP Modular Type, 30KVA (1x30KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-40KI | On-Line UPS, DSP Modular Type, 40KVA (1x40KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-60KI | On-Line UPS, DSP Modular Type, 60KVA (2x30KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-OI-60KI | On-Line UPS, DSP Modular Type, 60KVA (2x30KVA) with output Isolation Transformer, +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-80KI | On-Line UPS, DSP Modular Type, 80KVA (2x40KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-OI-80KI | On-Line UPS, DSP Modular Type, 80KVA (2x40KVA) with output isolation transformer, +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-100KI | On-Line UPS, DSP Modular Type, 100KVA (4x30KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-120KI | On-Line UPS, DSP Modular Type, 120KVA (5x30KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-160KI | On-Line UPS, DSP Modular Type, 160KVA (6x30KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-200KI | On-Line UPS, DSP Modular Type, 200KVA (5x40KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-250KI | On-Line UPS, DSP Modular Type, 250KVA (7x40KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-300KI | On-Line UPS, DSP Modular Type, 300KVA (8x40KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-400KI | On-Line UPS, DSP Modular Type, 400KVA (10x40KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-500KI | On-Line UPS, DSP Modular Type, 500KVA (13x40KVA), +/-16/17/18/19/20B, 3ph. Input, 3 ph. Output, 380 V, 50/60Hz (without batteries) |
| OL3M-BF | On-Line UPS, DSP Modular Type, Battery Frame |
| OL3M-DCC | On-Line UPS, DSP Modular Type, Dry Contact Card |



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