

OTL-MODULAR SERIES



Online UPS High frequency Modular 40KVA to 800KVA (Three Phase in and Three phase out)

OTL MODULAR Series Energy efficiency with superior electrical protection

To save the wasted power of underutilized, over-size ordinary UPS, and obtain "N+1" redundancy to ensure the critical system has high power availability, data centers now choose modular UPS as their first choice for critical power protection. With compact size, high efficiency, and easy expansion according to power requirements. Modular UPS systems are growing fast in the three-phase market.

The **OTL-MODULAR** series is a modular uninterruptible power supply (UPS) for medium - and large-sized data centers. It features high efficiency (96%) and a high input factor of 0.99, minimizing UPS energy consumption. The modular design and the N+X parallel redundancy technology, make the expansion & management easier as well as reduce initial acquisition costs.

It supports hot-swappable reduces maintenance time to 5 minutes and improves system availability. The maximum capacity can be expanded to 1000KVA according to future needs, helping to lower initial investment.

General Features

- Adopting digital control design, and the control system is more reliable
 - High input factor 0.99 and output factor 1.
 - 3-level topology design, efficiency is up to 96%
- Support parallel expansion for cabinets, and parallel expansion is up to 4-6 cabinets.
 - Battery number of each group can be selected from 30 pieces to 50 pieces.
 - With 7 inches (standard) and 10 inches (optional) colorful touch LCD screen.

Osmium Tech Co., Ltd.

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OSME

Technical Specifications

| MODULAR MODEL | | OTL-M40 | OTL-M50 |
|------------------|---|--|---|
| CABINET MODEL | | OTL-CM-200/320/400 | OTL-CM-200/300/400/500/600/800/1000 |
| MODULAR CAPACITY | | 40 KVA | 50KVA |
| CABINET CAPACITY | | 200 KVA to 400 KVA | 200 KVA to 1000 KVA |
| MAX. NUMBER | | 5/8/10 | 4/6/8/10/12/16/20 |
| INPUT | Rated voltage | Three-phase 3 x 380 V / 3 x 400 V / 3 x 415 V (3Ph+N+PE) | |
| | Voltage range | 138~305Vac for 40% Load; 305~485Vac for 100% Load | |
| | Rated frequency | 40Hz-70Hz | |
| | THDi | <3% | |
| | Power factor | > 0.99 | |
| OUTPUT | Rated voltage | Single-phase Three wire (1φ+N+PE) 220 / 230 / 240VAC | |
| | THDv (linear load) | ≤1% with linear load; ≤3% with nonlinear load | |
| | Power factor | 1 | |
| | Frequency | 50 / 60 Hz ± 1% | |
| | On-line performance | Up to 96% | |
| MANUAL BYPASS | Type | Uninterrupted | |
| STATIC BYPASS | Type | Static thyristor | |
| | Voltage (V) | Three-phase 3 x 380 V / 3 x 400 V / 3 x 415 V (3Ph+N+PE) | |
| | Transfer time | Nil | |
| | Input | Independence | |
| | Frequency | 50 / 60 Hz | |
| BATTERY | Battery type | Pb-Ca, VRLA, lead acid, gel, Ni-Cd, Li-Ion | |
| | Rated voltage | Optional Voltage: ±180/192/204/216/228/240/252/264/276/288/300Vdc (30/32/34/36/38/40/42/44/46/50pcs optional); 360Vdc~600Vdc (30~50 pcs, 36 pcs default, 36~50 pcs no power derating; 32~34 pcs output power factor 0.9; 30 pcs output power factor 0.8) | |
| | Charging voltage regulation | Batt-Watch | |
| | Power module charge current | 20A (max.) | |
| COMMUNICATION | Communication Interface | RS232, RS485, Parallel, LBS, BMS, Dry contact port, Relay card (optional), SNMP card (optional), Battery temperature sensor (optional) | |
| FEATURES | Transfer time | Utility to Battery : 0ms; Utility to bypass: 0ms | |
| | Overload (Line mode) | ≤110%, 60min; ≤125%, 10min; ≤150%, 1min; to bypass. >150% Shut down Immediately. | |
| | Overload (Bypass mode) | 135% overload for long term; >1000% overload for 100 ms | |
| | Overheat | Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately | |
| | Low battery voltage | Alarm and Switch off | |
| | Self-diagnostics | Upon Power On and Software control | |
| | Backfeed | Support | |
| | EPO | Shut down UPS immediately (turn to bypass optional) | |
| | Battery | Advance Battery Management | |
| | Noise Suppression | Comlies with EN62040-3 | |
| | Audible & Visual alarms | Line Failure, Battery Low, Overload, System Fault | |
| | Status LED & LCD display | Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault | |
| | Reading on the LCD display | Input, Output, Battery, Command, Setting, Maintenance | |
| GENERAL | Operating temperature | 0°C to +40°C | |
| | Relative humidity | Up to 95%, non-condensing | |
| | Maximum operating altitude | < 1500 m | |
| | Acoustic noise at 1 meter | < 60 dB | |
| STANDARD | Safety | EN-IEC 62040-1 | |
| | Electromagnetic compatibility | EN-62040-2 | |
| | Operation | VFI-SS-11 (EN-62040-3) | |
| | Corporate certification | ISO 9001, ISO 14001, ISO 45001 | |
| PHYSICAL | Dimensions (L x W x H) mm UPS Cabinet | 200/320kVA: 600×850×2000 400kVA: 1200×850×2000 | 200/300/400kVA: 600×850×2000 |
| | Dimensions (L x W x H) mm Power Module | 440 x 620 x 130 | |
| | Net weight (kg) UPS Cabinet | 210~460 | 200kVA: 240; 300kVA: 260; 400kVA: 290; 500kVA: 480; 600kVA: 540; 800kVA: 960; 1000kVA: 1050 |
| | Net weight (kg) Power Module | 33 | 34 |

*information subject to change without prior notice

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