

ONLINE DOUBLE-CONVERSION UPS

30-300 kVA MODULAR UPS

Scalable and reliable power protection for critical loads

PRODUCT OVERVIEW

Three-phase online modular UPS with 3-level inverter and DSP control technology, providing high input power factor and low harmonic distortion. Offering a flexible 30-300 kVA capacity range in a single cabinet, hot-swappable modules and parallel expansion, the system provides reliable power protection for data centers and sensitive equipment.

KEY FEATURES



30-300 kVA

● N+X Modular Redundancy

Hot-swappable power and bypass modules enable maintenance without load interruption.

● Parallel Expansion

Scalable architecture delivers up to 900 kVA in less than 2 m².

● Intelligent Sleep Mode

Smart module management improves energy savings at partial loads.

● Self-Aging Function

Energy-saving full-load testing using internal power circulation.

● High Power Density

30 kVA power modules in 2U height; up to 300 kVA in one cabinet.

● DSP and IGBT Technology

Stable performance, high power capability and a wide input voltage range.

● Smart Battery Management

Intelligent charging with Cold Start operation from batteries.

● Monitoring & Communication

Automatic event logging, IoT functions and programmable dry contacts.

TECHNICAL SPECIFICATIONS

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Capacity and design	300 kVA / 300 kW; 30 kVA power modules, 2U high; 3-phase input / 3-phase output.
Input	3P+N+PE; 380/400/415 VAC (line-line); 50/60 Hz; full-load range 304–478 VAC; derating from 100% to 75% in 228–304 VAC range; input PF >0.99; THDi <3%; input frequency 40–70 Hz.
Bypass	380/400/415 VAC (line-line); adjustable voltage range -40% to +25%, default -20% to +15%; overload: 110% continuous, 110–125% for 5 min, 125–150% for 1 min, >150% for 1 sec.
Output / Inverter	380/400/415 VAC; 50/60 Hz; power factor 1; regulation $\pm 1\%$; THDv <1% linear and <5% non-linear load; recovery time <20 ms; frequency precision 0.1%.
Inverter overload	110% load for 1 h, 125% for 10 min, 150% for 1 min, >150% for 200 ms.
Battery	32–44 batteries adjustable; standard three-wire ± 240 VDC or optional two-wire 480 VDC; charging capacity 20% of output power; charging precision $\pm 1\%$.
Efficiency and display	Up to 95.5% in normal and battery modes according to the source technical table; LED + 7-inch touchscreen LCD; IP20.
Communication / Options	USB, RS232, RS485, dry contact, Cold Start; optional SNMP, AS400, parallel kit, LBS, air filter and bottom-entry kit.
Environment	Operating 0–40 °C; storage -25–70 °C; relative humidity 0–95% non-condensing; noise 65 dB at full load and 62 dB at 45% load.
Dimensions / Weight	Cabinet: 600 × 1000 × 2000 mm, 260 kg; module: 440 × 678 × 85 mm, 23 kg.
Standards	IEC 62040-1, IEC 60950-1; EMC: IEC 62040-2 and related IEC 61000-4 series.