

ONLINE DOUBLE-CONVERSION UPS

30-900 kVA MODULAR UPS

3-PHASE INPUT / 3-PHASE OUTPUT

PRODUCT OVERVIEW

A modular online UPS solution combining a 3-level inverter with DSP control for high input power factor and low harmonic distortion. It supports up to 600 kVA in a single cabinet and can reach 900 kVA through parallel configurations in less than 2 m², serving large data centers and sensitive electronics.

KEY FEATURES



● N+X Redundancy

Modular redundant architecture for system availability.

● High Power Density

30 kVA power modules in 3U; up to 600 kVA per cabinet.

● DSP & IGBT Technology

Stable performance and low input harmonic distortion.

● 10.4-inch Display

Color touch LCD for monitoring and system status.

● Online Hot-Swapping

Hot-swappable bypass and power modules.

● High Efficiency

95% in normal mode and 99% in ECO mode.

● Smart Battery Management

Intelligent charging and battery cold-start support.

● Smart Sleep / Self-Aging

Intelligent module sleep and internal full-load testing.

COMMON TECHNICAL SPECIFICATIONS

CAPACITY & CABINET OPTIONS

Capacity	180 kVA	300 kVA	600 kVA
Cabinet dimensions (W×D×H) (mm)	600 × 1100 × 1600	600 × 1100 × 2000	2000 × 1050 × 2000
Cabinet net weight (kg)	178	242	660
Parallel cabinets (max.)	5	3	—
Power module	30 kVA / 30 kW	30 kVA / 30 kW	30 kVA / 30 kW
Module dimensions (W×D×H) (mm)	460 × 790 × 134 (3U)	460 × 790 × 134 (3U)	460 × 790 × 134 (3U)

COMMON TECHNICAL SPECIFICATIONS

Input	3P+N+PE; 380/400/415 VAC (line-line), 50/60 Hz; 304–478 VAC at full load, linear derating at 228–304 VAC; PF >0.99; THDi <3%; frequency range 40–70 Hz.
Bypass	380/400/415 VAC; 50/60 Hz; adjustable voltage window -40% to +25%, frequency window $\pm 1/\pm 3/\pm 5$ Hz; overload 110% continuous, 125% for 5 min, 150% for 1 min.
Output	380/400/415 VAC; output PF 1.0; voltage regulation 1% balanced / 1.5% unbalanced; THD <1% linear / <5.5% non-linear; crest factor 3:1.
Inverter Overload	110% for 1 hour; 125% for 10 minutes; 150% for 1 minute; above 150% for 200 ms.
Battery	± 240 VDC with 40 batteries; battery quantity adjustable from 32 to 44; charge power 20% of system capacity; voltage accuracy $\pm 1\%$.
System	Efficiency: 95% normal, 99% ECO and 95% battery mode; 10.4-inch color touch LCD with LEDs and keypad; IP20.
Communication	RS232, RS485, USB and dry contacts standard; optional SNMP and additional dry contacts. Parallel kit, SPD, LBS and dust filter available.
Environment	Operating 0–40 °C; storage -40–70 °C; humidity 0–95% non-condensing; 1% derating per 100 m from 1000 to 2000 m.
Noise	180/300 kVA: 65 dB full load, 62 dB at 45% load. 600 kVA: 72 dB full load, 68 dB at 45% load (1 m).
Standards	Safety IEC/EN 62040-1; EMC IEC/EN 62040-2; performance IEC/EN 62040-3.