

ONLINE DOUBLE-CONVERSION UPS

600-1200 kVA MODULAR UPS

Scalable and reliable power protection for large data centers

PRODUCT OVERVIEW

High-capacity modular online UPS systems designed for critical facilities. The series uses advanced 3-level technology and provides comprehensive redundancy from module level to unit level. With hot-swappable power modules, intelligent energy management and scalable parallel architecture, it delivers reliable clean power for medium and large data centers and other mission-critical loads.

KEY FEATURES



600-1200 kVA

● High Efficiency

Up to 97.5% efficiency in normal mode and up to 99% efficiency in Super ECO mode.

● Intelligent Monitoring

10-inch color touch LCD for IoT applications, alarms, status data and intuitive operation.

● Battery Flexibility

Compatible with lead-acid and lithium-ion batteries; supports 30-50 batteries and common battery banks in parallel systems.

● Fault Recording

Provides fault recording and event analysis for quick troubleshooting and fast service response.

● High Power Density

Up to 1000 kW within only 1.32 m², saving valuable floor space in large data centers.

● Scalable Architecture

Configurable from 100 kW to 3200 kW with support for up to 5 parallel units and 32 power modules.

● Hot-Swap Modular Design

Supports online hot-swapping and N+X redundancy for easier maintenance and higher availability.

● Communication Ready

Supports RS485, USB, CAN, programmable dry contact and optional SNMP, AS400, SMS and 485 expansion modules.

TECHNICAL SPECIFICATIONS

CAPACITY & CABINET OPTIONS

Capacity	600 kVA	800 kVA	1000 kVA	1200 kVA
Cabinet dimensions (mm)	1000 × 1100 × 2000	1200 × 1100 × 2000 / 1800 × 1100 × 2000	1200 × 1100 × 2000 / 1800 × 1100 × 2000	1200 × 1100 × 2100 / 2000 × 1100 × 2000
Cabinet weight (kg)	400	590 / 890	620 / 940	657 / 760 / 1150
Module dimensions (mm)	440 × 795 × 174	440 × 795 × 174	440 × 795 × 174	440 × 795 × 174
Module weight (kg)	53.5	53.5	53.5	53.5

COMMON TECHNICAL DATA

Input	3-phase + neutral + PE; 380/400/415 VAC (line-to-line); 50/60 Hz; input range 323-478 VAC at full load and 138-323 VAC with linear derating; PF > 0.99; THDi < 3%.
Bypass	380/400/415 VAC; 50/60 Hz; voltage window adjustable from default -20% to +15% with selectable upper and lower limits; frequency window adjustable to ± 1 / ± 3 / ± 5 Hz; overload 110% continuous, 110-125% for 10 min, 125-150% for 1 min, >150% for 200 ms.
Output	380/400/415 VAC; 50/60 Hz; PF 1.0; voltage regulation $\pm 1\%$; dynamic response <5%; recovery <20 ms; THDu <1% on linear load and <5% on non-linear load; overload <110% for 1 h, 110-125% for 10 min, 125-150% for 1 min, >150% for 200 ms.
Battery	Nominal battery voltage ± 240 VDC; configurable battery quantity 30-50. Derating: 30 batteries to 70%, 32-34 to 80%, 36-38 to 90%, and 40-50 without derating. Charging accuracy $\pm 1\%$; charging capacity up to 15% of output active power.
Efficiency	Up to 97.5% in normal mode and 96% in battery mode.
Display & Interface	LCD + LED + color touch LCD. Standard interfaces: RS485, USB, CAN, programmable dry contact, 2 smart card slots and 1 expandable dry contact slot.
Optional Accessories	SNMP card, AS400 card, parallel kit, SPD, single input kit, LBS, SMS module and 485 expansion card.
Environmental	Operating 0-40 °C; storage -40-70 °C; humidity 0-95% non-condensing; noise 75 dB at 100% load and 70 dB at 45% load; altitude below 1000 m without derating, then 1% derating per 100 m up to 2000 m.
Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3