

THREE-PHASE INPUT / THREE-PHASE OUTPUT · ONLINE DOUBLE CONVERSION

50-600 kVA MODULAR UPS

ELSIPOWER | Uninterruptible Power Systems

PRODUCT OVERVIEW

Designed for sensitive loads and large data centers, this modular online UPS series combines 3-level IGBT technology and DSP control with high power density and flexible capacity expansion. Hot-swappable power modules, parallel operation, smart sleep and intelligent charging management support critical power infrastructure.

KEY FEATURES



50-600 kVA

● Compact Design

500 kVA in one cabinet with a footprint below 1.5 m².

● High Efficiency

Up to 96% efficiency in online double-conversion mode.

● Intelligent Charging

Optimized charge and discharge cycles support battery life.

● Smart Sleep Mode

Intelligently rests selected modules at light loads to improve efficiency.

● High Power Density

50 kVA power modules in 4U height for easy expansion.

● High Scalability

Expandable to 1800 kVA with three parallel systems.

● Touchscreen Interface

7/10-inch touch LCD and module-level monitoring options.

● Hot-Swap Service

Modular hot-swap architecture simplifies maintenance and expansion.

TECHNICAL SPECIFICATIONS

CAPACITY & PHYSICAL DATA

Capacity	200 kVA	300 kVA	400 kVA	600 kVA
Cabinet size (WxDxH, mm)	600 × 750 × 1600	600 × 750 × 2000	1200 × 850 × 2000	1200 × 1100 × 2000
Cabinet weight (kg)	170	220	450	578
Power module rating	50 kVA	50 kVA	50 kVA	60 kVA
Module size (mm)	440 × 475 × 140	440 × 475 × 140	440 × 475 × 140	442 × 659 × 174
Module weight (kg)	23	23	23	41

ELECTRICAL & SYSTEM SPECIFICATIONS

Input	3P+N+PE; nominal 380/400/415 VAC; full-load input range 304–478 VAC, 228–304 VAC with derating; 40–70 Hz; input PF >0.99. THDi <2% for 50 kVA modules, <3% for 60 kVA modules.
Bypass	380/400/415 VAC; adjustable voltage window -40% to +25% (default -20% / +15%); adjustable frequency window ±1, ±3, ±5 Hz. Bypass overload capability varies by capacity group.
Output	380/400/415 VAC; 50/60 Hz; output PF 1; voltage accuracy ±1%; THDv <1% linear, <5% non-linear load; transient response <5%, recovery <20 ms; crest factor 3:1.
Battery	Adjustable 32–44 batteries; PF reduced to 0.8 for 30–32, 0.9 for 34 and 1.0 for 36–50 batteries; standard 3-wire ±240 VDC, optional 2-wire 480 VDC; charge power up to 20% of output, precision ±1%.
Efficiency	Up to 96% in normal mode and battery mode.
Display & Comms	LED and touch LCD; USB, RS232, RS485, dry contacts and cold start; optional SNMP, AS400 and parallel operation accessories.
Environment	IP20; operating 0–40 °C; 0–95% RH non-condensing; 1% derating per 100 m between 1000 and 2000 m. Noise: 68/65 dB for 50 kVA module cabinets, 72/69 dB for 600 kVA (%100/%45 load).
Standards	IEC 62040-1, IEC 62040-2 and IEC 61000-4 series.