

ONLINE DOUBLE-CONVERSION UPS

25-180 kVA MODULAR UPS

Flexible configuration, high power density and intelligent power management

PRODUCT OVERVIEW

ELSIPOWER modular UPS solutions provide scalable, uninterrupted power protection across the 25-180 kVA range. With rack-compatible design, hot-swappable power modules, flexible phase configuration and advanced charging management, the series is suitable for servers and other critical applications.

KEY FEATURES



25-180 kVA RANGE

● Rack Design

19-inch standard rack-compatible modular structure for easy integration with server systems.

● High Power Density

25 kW or 30 kW power modules in 2U height save space and simplify capacity expansion.

● Data Center Integration

Compact solution designed for integration with battery cabinets and power distribution units.

● Intelligent Charging

Intelligent control of charging and discharging helps extend battery service life.

● Flexible Configuration

Supports three-phase in/three-phase out, three-phase in/single-phase out or single-phase in/single-phase out.

● User-Friendly Interface

7-inch color touch LCD provides clear operating and status information.

● Smart Sleep Function

Intelligently switches off selected modules at low loads to improve system efficiency.

● Flexible Battery Support

Supports lead-acid and lithium batteries with adjustable battery configurations by model.

CAPACITY & TECHNICAL SPECIFICATIONS

CAPACITY OPTIONS

Capacity	50 kVA	100 kVA	150 kVA	180 kVA
Active power (kW)	50	100	150	180
Module capacity	25 kW	25 kW	25 kW	30 kW
Cabinet size (mm)	442×711×307	442×660×797	442×660×976	482×816×1018
Cabinet weight (kg)	39	64	88	132
Module size (mm)	400×495×86	400×495×86	400×495×86	440×678×85
Module weight (kg)	12	14	16	23

TECHNICAL SPECIFICATIONS

Input	3P+N+PE or 1P+N+PE (depending on configuration); three-phase 380/400/415 VAC, single-phase 220/230/240 VAC. Input frequency range 40-70 Hz; input PF >0.99.
Input quality	50-150 kVA: THDi <2%; 180 kVA: THDi <3% at 100% linear load. Three-phase full-load input range 304-478 VAC; power derating applies at lower voltages.
Bypass	Three-phase 380/400/415 VAC; single-phase 220/230/240 VAC. Adjustable voltage range -40% to +25%; selectable bypass frequency window ±1, ±3 or ±5 Hz.
Output	Three-phase 380/400/415 VAC or single-phase 220/230/240 VAC; 50/60 Hz; output PF 1; voltage precision ±1%; THDv <1% at linear load and <5% at non-linear load.
Overload	Inverter: 110% for 1 hour; 125% for 10 minutes; 150% for 1 minute; above 150% for 200 ms. Crest factor 3:1 (25 kW series).
Battery	Configurable battery quantity with power derating where applicable; standard three-wire ±240 VDC, optional two-wire 480 VDC. Charging accuracy ±1%; charging capacity 20% × Pout for 180 kVA.
Efficiency	50-150 kVA: up to 96.5% in normal mode and 95.5% in battery mode; 180 kVA: up to 95.5% in both normal and battery modes.
Control / Comms	7-inch touch LCD + LED; USB, RS232, RS485, dry contacts and cold start. Options: SNMP, AS400, parallel kit, LBS and air filter.
Environment / Standards	IP20; operating temperature 0-40 °C; relative humidity 0-95% non-condensing; derating 1% per 100 m from 1000 to 2000 m. IEC 62040-1, IEC 62040-2.