



PRODUCT CATALOG

- RACK / TOWER CHASSIS
- TRUE DOUBLE-CONVERSION
- COLD START



ONLINE UPS · RACK / TOWER

ELS-11 RT SERIES

1 – 3 kVA ONLINE UPS

High-frequency double-conversion UPS for rack and tower installation

1 – 3 kVA

Power range

2U

Rack height

0 ms

Mains battery transfer time

GENERAL FEATURES

The ELSiPOWER ELS-11 RT series are 1-3 kVA high-frequency true double-conversion UPS units that can be installed in rack cabinets or stand as towers. DSP control, PFC and a wide input voltage range deliver continuous, clean power for server rooms, network cabinets and sensitive electronics. Standard (S, internal battery) and long-run (L, external battery) versions adapt to different backup times.

1-3 kVA
Power range

2U
Rack height

0 ms
Mains battery
transfer time

97%
ECO-mode efficiency
(ELS-113 RT)

KEY FEATURES

- High-frequency true double-conversion
- Input power factor correction (PFC)
- Output power factor = 0.9
- Input / output voltage selectable from the LCD
- Short-circuit and overload protection
- Smart battery management for long battery life
- DSP (digital signal processor) technology
- Wide input voltage range (110-300 V)
- Cold start (start from battery without mains)
- ECO mode for economical operation
- Load-sensitive smart fan control
- Convertible chassis for rack or tower mounting

APPLICATIONS



Buildings



Server systems



Medical facilities



Industrial plants



Transportation systems



Emergency systems



CONTACT

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TECHNICAL SPECIFICATIONS

MODEL	ELS-111 RT	ELS-112 RT	ELS-113 RT
GENERAL			
Capacity (kVA / kW)	1 kVA / 900 W	2 kVA / 1800 W	3 kVA / 2700 W
INPUT			
Voltage	208 / 220 / 230 / 240 VAC		
Voltage range	110–176 VAC (linear derating 50%–100% load); 176–280 VAC (no derating); 280–300 VAC (50% derating)		
Frequency	40–70 Hz (auto-sensing)		
Input power factor	≥ 0.99		
Current harmonics (THDi)	≤ 5%		
Bypass voltage range	-25% ~ +15% (selectable)		
OUTPUT			
Voltage	208 / 220 / 230 / 240 VAC (selectable via LCD)		
Voltage regulation	± 1% (linear load)		
Frequency	45–55 Hz or 55–65 Hz (synchronized); battery mode 50 / 60 Hz ± 0.1 Hz		
Waveform / power factor	Pure sine / 0.9		
Crest factor	3:1		
Voltage harmonics (THDv)	≤ 2% linear load; ≤ 5% non-linear load		
Transfer time	Mains to battery 0 ms / inverter to bypass 4 ms (typical)		
Inverter overload	105%–125%: 1 min; 125%–150%: 30 s; > 150%: 300 ms (to bypass)		
EFFICIENCY			
Mains mode	≥ 91%		≥ 92%
Battery mode	≥ 85%	≥ 86%	≥ 87%
ECO mode	≥ 95%	≥ 96%	≥ 97%
BATTERY (S: STANDARD · L: LONG-RUN)			
Battery voltage	24 VDC (S) / 36 VDC (L)	48 VDC (S) / 72 VDC (L)	72 VDC (S) / 96 VDC (L)
Battery quantity	2 × 7 / 9 Ah (S) · 3 pcs (L)	4 × 7 / 9 Ah (S) · 6 pcs (L)	6 × 7 / 9 Ah (S) · 8 pcs (L)
Charging current	1 A (standard model) / 6 A (long-run model)		
Recharge time	90% in 8 hours		
ALARMS & PROTECTIONS			
Audible alarms	Mains failure: every 4 s · Low battery: every 1 s · UPS general fault: continuous · Overload: twice per second		
Protections	Short circuit, overload, over-temperature, battery deep discharge and fan test		
ENVIRONMENT / COMMUNICATION / STANDARDS			
Operating temperature / humidity	0–40 °C · 20–90% (non-condensing) · IP20		
Noise level	< 50 dB (1 m)		
SNMP (optional)	Power management via SNMP manager and web browser		
Standards	EN/IEC 62040-1, EN/IEC 62040-2, IEC 62040-3, EN 61000-3-2, EN 61000-3-3, IEC 61000-2-2, IEC 61000-4-2 / -3 / -4 / -5 / -6 / -8 / -11		
DIMENSIONS & WEIGHT			
Net dimensions (W×D×H, mm)	440×338×88 (S) / 440×468×88 (L)	440×430×88 (S) / 440×468×88 (L)	440×560×88 (S) / 440×468×88 (L)
Packed dimensions (W×D×H, mm)	598×428×194 (S)	545×560×201 (S) / 545×592×201 (L)	590×690×201 (S) / 590×592×201 (L)
Net weight (kg)	10.6 (S) / 7.6 (L)	18.7 (S) / 9.7 (L)	26.8 (S) / 10.1 (L)
Packed weight (kg)	11.3 (S) / 11.1 (L)	21.8 (S) / 13.2 (L)	29.7 (S) / 13.6 (L)

* Product models, images and technical specifications are subject to change without prior notice.