



PRODUCT CATALOG

- RACK / TOWER CHASSIS
- OUTPUT POWER FACTOR 1
- COLD START



ONLINE UPS · RACK / TOWER

ELS-11 RT SERIES

6 – 10 kVA ONLINE UPS

Unity power factor double-conversion UPS for rack and tower installation

6 – 10 kVA

Power range

1

Output power factor (kVA = kW)

99%

ECO-mode efficiency

GENERAL FEATURES

The ELSiPOWER ELS-11 RT 6-10 kVA series are high-frequency true double-conversion UPS units for rack or tower installation. Unity output power factor (kVA = kW), DSP control and a wide input voltage range deliver continuous, clean power to server, network and industrial control systems. Available as a 4U standard model (S) with internal batteries or a 2U long-run model (L) with external batteries.

6 – 10 kVA

Power range

1

Output power factor
(kVA = kW)

99%

ECO-mode efficiency

4U / 2U

Standard / long-run
model

KEY FEATURES

- High-frequency true double-conversion
- Input power factor correction (PFC)
- Output power factor = 1
- 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-1116 RT	ELS-1110 RT
GENERAL		
Capacity (kVA / kW)	6 kVA / 6000 W	10 kVA / 10000 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	-40% ~ +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 / 1	
Crest factor	3:1	
Voltage harmonics (THDv)	≤ 1% linear load; ≤ 4% non-linear load	
Transfer time	Mains to battery 0 ms / inverter to bypass 4 ms (typical)	
Inverter overload	105%-110% for 10 min; 110%-125% for 1 min; 125%-150% for 30 s	
EFFICIENCY & ALARMS		
Efficiency	≥ 94.5% up to 60% load · ≥ 99% in ECO mode	
Audible alarms	Low battery: every 4 s · UPS general fault: long alarm · Overload: twice per second	
BATTERY		
Battery voltage	192-240 VDC (16 or 20 batteries selectable)	
Battery quantity / type	16 × 12 V 7 / 9 Ah (internal, standard model)	
Charging current (standard model)	1 A	
Charging current (long-run L model)	1-5 A selectable / 12 A (optional)	
Recharge time	90% in 9 hours	
ENVIRONMENT / COMMUNICATION / STANDARDS		
Operating temperature / humidity	0-40 °C · 20-90% (non-condensing) · IP20	
Noise level	< 55 dB (1 m)	
SNMP (optional)	Power management via SNMP manager and web browser	
Standards	Safety: IEC/EN 62040-1, IEC/EN 62477-1 · EMC: IEC/EN 62040-2, IEC 61000-4-2 / -3 / -4 / -5 / -6 / -8	
DIMENSIONS & WEIGHT		
Net dimensions (W×D×H)	440 × 680 × 176 mm (S, 4U) / 440 × 580 × 88 mm (L, 2U)	
Packed dimensions (W×D×H)	564 × 792 × 418 mm (S) / 514 × 696 × 188 mm (L)	
Net weight (kg)	58 (S) / 12 (L)	63 (S) / 14 (L)
Packed weight (kg)	68 (S) / 14 (L)	73 (S) / 16 (L)

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