



PRODUCT CATALOG

- TRUE DOUBLE-CONVERSION
- GENERATOR COMPATIBLE
- COLD START



ONLINE UPS · SINGLE-PHASE IN / SINGLE-PHASE OUT

ELS-11 SERIES

6 – 10 kVA ONLINE UPS

High-frequency double-conversion UPS with internal batteries for critical loads

6 – 10 kVA

Power range

0.9

Output power factor

0 ms

Transfer time

GENERAL FEATURES

The ELSiPOWER ELS-11 6-10 kVA series are high-frequency true double-conversion (online) UPS units supplied with an internal battery pack. DSP control, PFC and a wide 120-276 V input range provide pure sine-wave power with zero transfer time through mains fluctuations and outages. Generator compatibility, advanced battery management and comprehensive protection make it a reliable choice for buildings, server systems and medical equipment.

6 – 10 kVA

Power range

0.9

Output power factor

0 ms

Transfer time

≥ 90%

Efficiency

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 (120-276 V)
- Cold start (start from battery without mains)
- ECO mode for economical operation
- Load-sensitive smart fan control

APPLICATIONS



Buildings



Server systems



Medical facilities



Industrial plants



Transportation systems



Emergency systems



CONTACT

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TECHNICAL SPECIFICATIONS

MODEL	ELS-T116	ELS-T110
GENERAL		
Capacity (kVA / kW)	6 kVA / 5.4 kW	10 kVA / 9 kW
INPUT		
Phase / nominal voltage	1P + N + PE · 220 / 230 / 240 VAC	
Voltage tolerance	120–276 VAC	
Frequency / tolerance	50 / 60 Hz (auto-sensing) · 45–65 Hz	
Power factor / THDi	≥ 0.99 · ≤ 5% (100% linear load, input THDv ≤ 1%)	
Bypass voltage tolerance	Upper limit: +25% at 220 VAC (options +10% / +15% / +20%), +20% at 230 VAC (+10% / +15%), +15% at 240 VAC (+10%) · Lower limit: factory setting –45% (options –20% / –30%)	
Generator input	Supported	
OUTPUT		
Phase / nominal voltage	1P + N + PE · 220 / 230 / 240 VAC	
Power factor / regulation	0.9 · ± 1%	
Frequency / crest factor	50 / 60 Hz (± 0.1%) · 3:1	
Voltage harmonics (THDv)	≤ 3% (linear load), ≤ 5% (non-linear load)	
Waveform / efficiency	Pure sine wave · ≥ 90%	
Transfer time	Mains – battery: 0 ms; mains – bypass: 0 ms	
BATTERY		
Battery quantity / capacity	16 / 18 / 20 pcs (adjustable) · standard: 16 × 12 V 7–9 Ah internal, VRLA	
Charging current / time	Standard 1 A, max. 6 A (adjustable) · 90% recharge in 8–10 hours	
PROTECTION & ALARMS		
Overload	105%–110%: 10 min; 110%–130%: 1 min; > 130%: transfers to bypass	
Short circuit / over-temperature	System shuts down on short circuit · on over-temperature: bypass in online mode, shutdown in battery mode	
Battery / EPO / self-test	Alarm and shutdown on low battery, advanced battery management · immediate shutdown via EPO · software test at start-up	
Visual & audible alarms	Input fault, low battery, overload, system fault	
DISPLAY		
Status LED & LCD	Online, battery, ECO and bypass modes, low battery, bad battery, overload and UPS fault	
LCD	Input / output voltage and frequency, load percentage, battery voltage, internal and ambient temperature	
PHYSICAL / COMMUNICATION / ENVIRONMENT		
Dimensions (W×D×H)	191 × 460 × 720 mm	
Weight	60 kg	61 kg
Communication	Standard: USB, RS232, EPO · Optional: SNMP adapter, relay card	
Temperature / humidity / altitude	Operating 0–40 °C, storage –25–55 °C · 0–95% non-condensing · < 1500 m	
Noise / certificates	< 55 dBA (1 m) · CE, EN/IEC 62040-1-1, EN/IEC 62040-2	

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