



PRODUCT CATALOG

- TRUE DOUBLE-CONVERSION
- DSP CONTROL
- COLD START



ELS-111 · ELS-112 · ELS-113

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

ELS-11 SERIES

1 – 3 kVA ONLINE UPS

Continuous, clean power with high-frequency double-conversion technology

1 – 3 kVA

Power range

0.9

Output power factor

0 ms

Mains battery transfer time

GENERAL FEATURES

The ELSiPOWER ELS-11 series consists of high-frequency true double-conversion (online) UPS units from 1 to 3 kVA. With DSP control, input power factor correction (PFC) and a wide 110–300 V input range, it delivers continuous, clean and stable power to connected equipment through outages and mains fluctuations. An LCD-selectable output voltage and smart battery management make it ideal for offices, servers and sensitive electronics.

1–3 kVA
Power range

0.9
Output power factor

0 ms
Mains battery transfer time

97%
ECO-mode efficiency (ELS-113)

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

APPLICATIONS



Buildings



Server systems



Medical facilities



Industrial plants



Transportation systems



Emergency systems



CONTACT

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TECHNICAL SPECIFICATIONS

MODEL	ELS-111	ELS-112	ELS-113
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)		
Power factor	≥ 0.99		
Current harmonics (THDi)	≤ 6%		
Bypass voltage range	-25% ~ +15% (adjustable)		
OUTPUT			
Voltage	208 / 220 / 230 / 240 VAC (selectable via LCD)		
Voltage regulation	± 1%		
Frequency	Synchronized range 45–55 Hz or 55–65 Hz; battery mode 50 / 60 Hz ± 0.1 Hz		
Waveform	Pure sine wave		
Power factor	0.9		
Voltage harmonics (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)		
Crest factor	3:1		
Overload	105%–125% for 1 min; 125%–150% for 30 s; > 150% for 300 ms		
BATTERY			
DC voltage	24 V	48 V / 72 V / 96 V	
Internal battery pack	2 × 12 V 7 Ah or 2 × 12 V 9 Ah	4 × 9 Ah / 6 × 9 Ah	
Charging current (max.)	1 A (standard) / 6 A (long-run model)		
Recharge time	Standard model: 90% in 3 hours; long-run model: depends on battery capacity		
SYSTEM			
Efficiency (mains mode)	≥ 90%	≥ 91%	≥ 92%
Efficiency (battery mode)	≥ 85%	≥ 86%	≥ 87%
Efficiency (ECO mode)	≥ 95%	≥ 96%	≥ 97%
Transfer time	Mains to battery 0 ms / inverter to bypass 4 ms		
Protections	Short circuit, overload, over-temperature, battery deep-discharge protection and fan test		
Communication	RS232, USB (standard); RS485, dry contact, SNMP (optional)		
Display	LCD + LED		
ENVIRONMENT & STANDARDS			
Operating temperature	0 – 40 °C		
Storage temperature	-25 – 55 °C (without battery)		
Relative humidity	0 – 95% (non-condensing)		
Operating altitude	≤ 1000 m; 1% derating per 100 m above		
Protection class	IP20		
Noise level	≤ 50 dB (1 m)		
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		

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