ONLINE
UPS

ELS-11 SERIES

RACK TOWER 6-10kVA

- High Frequency True Double Conversion
- DSP (Digital Signal Processors) Technology
- Input Power Factor Correction (PFC)
- Wide Input Voltage Range (110~300V)
- Output Power Factor = 0.9
- Cold Start (Start from Battery without Mains)
- Selectable Input / Output Voltage via LCD
- ECO Mode for Efficient Operation
- Load-Based Smart Fan Control

Buildings

Server Systems

Medical Facilities

Industrial Factories

Transportation Systems

Emergency Systems

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ONLINE
UPS

ELSIPOWER

TECHNICAL SPECIFICATIONS

MODEL	ELS-116 RT	ELS-1110 RT
Capacity (kVA/kW)	6kVA / 6000W	10kVA / 10000W
INPUT		
Voltage	208/220/230/240 VAC	208/220/230/240 VAC
Voltage Range	110~176 VAC (50%-100% Load Linear Derating); 176~280 VAC (No Derating); 280~300 VAC (50% Derating)	110~176 VAC (50%-100% Load Linear Derating); 176~280 VAC (No Derating); 280~300 VAC (50% Derating)
Frequency	40~70 Hz (Auto Sensing)	40~70 Hz (Auto Sensing)
Input Power Factor	≥ 0.99	≥ 0.99
THDi	≤ 5%	≤ 5%
Bypass Voltage Range	-40% to +15% (Selectable)	-40% to +15% (Selectable)
OUTPUT		
Voltage	208/220/230/240 VAC (Selectable via LCD)	208/220/230/240 VAC (Selectable via LCD)
Voltage Regulation	± 1% (Linear Load)	± 1% (Linear Load)
Frequency	45~55Hz or 55~65Hz (Synchronized); 50/60Hz ±0.1Hz (Battery Mode)	45~55Hz or 55~65Hz (Synchronized); 50/60Hz ±0.1Hz (Battery Mode)
Waveform / Power Factor	Pure Sine Wave / 1	Pure Sine Wave / 1
Crest Factor	3:1	3:1
THDv	Linear Load ≤ 1%; Non-Linear ≤ 4%	Linear Load ≤ 1%; Non-Linear ≤ 4%
Transfer Time	Mains to Battery: 0 ms; Inverter to Bypass: 4ms (Typical)	Mains to Battery: 0 ms; Inverter to Bypass: 4ms (Typical)
Overload Capacity	105%-110% 10min; 110-125% 1min; 125%-150% 30s	105%-110% 10min; 110-125% 1min; 125%-150% 30s
EFFICIENCY		
Efficiency at ≤60% Load	≥ 94.5%	≥ 94.5%
100% Load	≥ 100%	≥ 100%
ECO Mode	≥ 99%	≥ 99%
BATTERY		
Voltage	192-240 VDC (16 or 20 Batteries Selectable)	192-240 VDC (16 or 20 Batteries Selectable)
Quantity / Model	16 × 7–9 Ah (Internal)	16 × 7–9 Ah (Internal)
Standard Charge Current	1A	1A
Long Run (L) Charge Current	1–5 A selectable / 12 A (optional)	1–5 A selectable / 12 A (optional)
Recharge Time	8 hours: 90% Capacity	8 hours: 90% Capacity
ALARMS		
Low Battery	Audible Alarm / 4s	Audible Alarm / 4s
UPS General Fault	Continuous Audible Alarm	Continuous Audible Alarm
Overload	Audible Alarm twice / 1s	Audible Alarm twice / 1s
ENVIRONMENT / COMM / STANDARDS		
Operating Temp / Humidity	0°C - 40°C / 20%-90% (Non-condensing) / IP20	0°C - 40°C / 20%-90% (Non-condensing) / IP20
Noise Level	<55 dB (at 1 meter)	<55 dB (at 1 meter)
SNMP (Optional)	Power management via SNMP manager and web browser	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, IEC 61000-4-3, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8	Safety: IEC/EN 62040-1, IEC/EN 62477-1 EMC: IEC/EN 62040-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8
DIMENSIONS		
Net Dimensions (WxDxH)	440 × 680 × 176 mm (S) – 4U	440x580x88 (L) 2U
Package Dimensions	564x792x418 (S) / 514x696x168 (L)	564x792x418 (S) / 514x696x168 (L)
Net Weight (kg)	58 kg (S) / 12 kg (L)	63 (S) / 14 (L)
Gross Weight (kg)	68 (S) / 14 (L)	73 (S) / 16 (L)

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