ONLINE UPS

ELS-11 SERIES (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

PARAMETER	ELS-116	ELS-1110
Capacity (kVA/kW)	6kVA/5.4kW	10kVA/9kW
INPUT		
Phase	1Phase+N+PE	
Nominal Voltage	220/230/240VAC	
Voltage Tolerance	120VAC-276VAC	
Nominal Frequency	50/60 Hz (Auto-Sensing)	
Frequency Tolerance	45Hz-65Hz	
Power Factor	≥0.99	
Input Current Harmonic	≤5% (100% linear load, input THDv≤1%)	
Bypass Voltage Tolerance	220VAC max: +25% (+10,+15,+20,+25) 230VAC max: +20% (+10,+15,%20) 240VAC max: +15% (+10,+15) min: factory setting -45% (-20,-30,-45)	
Generator Input	Supported	
OUTPUT		
Phase	1Phase+N+PE	
Nominal Voltage	220/230/240VAC	
Power Factor	0.9	
Voltage Regulation	±1%	
Frequency	50/60Hz / (±0.1%)	
Crest Factor	3:1	
Output Voltage Harmonic (THDv)	≤3% (linear load), ≤5% (non-linear load)	
Waveform	Pure Sine Wave	
Efficiency**	≥90%	
BATTERY		
Number of Batteries	16/18/20 pcs (Adjustable)	
Capacity	16 x 12V 7-9 Ah (Standard internal battery)	
Battery Type	VRLA	
Standard Charge Current	1A	
Charge Current (Max.)	6A (Adjustable)	
Charge Time (90%)	8-10 hours (Standard)	
Transfer Time	Mains-Battery: 0ms; Mains-Bypass: 0ms	
PROTECTION		
Overload	105%-110% 10 min, 110%~130% 1 min, >130% transfer to bypass	
Short Circuit	System stops.	
Over Temperature	Online Mode: Transfers to bypass; Battery Mode: UPS shuts down immediately	
Low Battery	Alarm and Shutdown	
Self-Test	Software test at startup	
EPO	UPS shuts down immediately	
Battery	Advanced Battery Management	
ALARMS		
Visual & Audible	Input error, Low Battery, Overload, System error	
DISPLAY		
Status LED & LCD	Online Mode, Battery Mode, Eco Mode, Bypass Mode, Low Battery, Bad	
LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Internal Temp and Ambient Temp	
PHYSICAL		
Dimensions - WxDxH (mm)	191x460x720	
Weight (kg)	60	61
COMMUNICATION* **		
Standard	USB, RS232, EPO	
Optional	SNMP Adapter, Relay card	
ENVIRONMENTAL		
Operating/Storage Temp	0°C ~ +40°C / -25°C ~ +55°C	
Humidity	0~95% non-condensing	
Altitude	< 1500m	
Noise Level (1m)	<55 dBA	
STANDARDS		
Certification	CE, EN/IEC 62040-1-1, EN/IEC 62040-2	

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