



ELEKTRA SERIES OUTDOOR UPS

HIGH FREQUENCY UPS

1KVA ~ 10KVA

OUTDOOR UPS

**Mission Critical &
Outdoor UPS**

Integrated
**Outdoor Online
UPS 1-10KVA**

Elektra Series


GREEN
ENERGY SAVING
ENVIRONMENTAL
PROTECTION



Integrated Outdoor Online UPS 1-10KVA with Lead-acid & LifePo4 Battery



Telecom Traffic Lights Local Area Networks CCTV



Product snapshot:
Model: 1-10KVA
Nominal voltage: 220/230/240VAC
Nominal frequency: 50/60Hz
Output power factor: 0.8/0.9



Application:

This UPS is commonly used in corners of the city, remote roads, mountains, bad environments such as high temperature (up to +70°C), low temperature (down to -40°C), severe dust, moisture, rain, mist erosion, and areas with very poor power quality (the voltage has been higher than 260V or lower than 160V for a long time, and the frequency has changed abnormally).

Reliable power supply:

Elektra Series communication edge network outdoor UPS is a high-performance integrated outdoor online uninterruptible power supply system specially designed for wireless communication system of outdoor microcellular base station, which has high technological advancement and practicability.

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High Reliability of the UPS System

- Using microprocessor to control the UPS inverter that works on sinusoidal pulse width modulation (SPWM), simplifying the UPS control circuit, improving the stability, and achieving more real-time capability to quickly respond to changes in the external environment and ensure that the machine's control circuit is simpler and more reliable.

Robust Outdoor Structure

- Fine IP55/65 dustproof and waterproof design.
- Galvanized sheet ensures excellent corrosion resistance.
- With sun protection, heat insulation, roof ventilation.
- Special outdoor powder coating, high temperature and corrosion resistance.

Environmental Adaptability

- Wide input voltage, avoiding frequent switching to battery power supply due to excessive grid voltage, reducing the probability of battery failure, and adapting to the power environment in poor areas.
- The input frequency range is 45~55Hz, ensuring stable operation when connected to various fuel generators, and meeting the user's requirements for fuel engines.

Optional Accessories (Air-conditioner / Heat-exchanger)

We use air-conditioner / heat-exchanger to effectively reduce the temperature inside the cabinet and improve the IP protection level.

Heater and Temperature Controller

In response to low temperature climate impact on batteries and UPS, we adopt adjustable heating device to ensure lifespan of the UPS and battery in normal use.

ES SERIES OUTDOOR UPS TECHNICAL SPECIFICATION

Model	ES101CW	ES102CW	ES103CW	ES103CW1	ES106CW	ES106CW1	ES110CW
Capacity	1KVA	2KVA	3KVA	3KVA	6KVA	6KVA	10KVA
Nominal Voltage	220/230/240VAC						
Frequency	50Hz/60Hz						
Input							
Voltage Range	115~295VAC (±3VAC)			176~297VAC (±3VAC)			
Frequency Range	50Hz (46~54 Hz); 60Hz (56~64 Hz)						
Soft Start	0~100% 5sec						
Power factor	0.98						
Output							
Voltage Precision	220/230/240VAC x (±1%) VAC / 12VDC & 48VDC (300-1000Watt) (DC Output is optional and needs wattage Clarification)						
Frequency Precision	50Hz/60Hz ±0.05Hz						
Power Factor	0.8/0.9 (optional), standard 0.8						
Wave Distortion	Linear load <3%, Non-linear load <6%						
Overload Capability	Overload (110~150%) for 30 seconds, automatically transfer to bypass When the load is back to normal, it can automatically transfer to online mode						
Crest Factor	3 :1						
Transfer Time	0ms (AC to DC)						
DC Supply Voltage	24/36VDC	48/72VDC	72/96VDC	48VDC	192VDC	48VDC	240VDC
Charging Current	4A/8A (optional)	4A/8A (optional)	4A/8A (optional)	30A	4.2A	30A	4.2A
Internal Battery Capacity	2/3	4/6	6/8	NIL	16	NIL	20
Panel Display							
LCD	Load level, Battery level, Battery indicator, Utility power, Inverter, Bypass, Overload, Fault						
Communications	Dry contact, door lock, CMS (Centralized management systems) optional						
Communicate Interface	RS232, SNMP card (optional)						
Work Environment							
Temperature	-40°C ~ 70°C (with Cabinet) 0° C -55° C (without Cabinet)						
Humidity	0~95% (Non-condensing)						
Storage Temperature	-25°C ~ 55°C						
Elevation	<1500m						
Physical Characteristics							
Net Weight (without battery)	85KG	125KG	125KG	125KG	150KG	150KG	150KG
Dimensions: (WxDxH) mm	613*640*954	650*753*1227	650*753*1227	650*753*1227	940*940*1770	940*940*1770	940*940*1770



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