



# **RELIABILITY Power Systems**

## **Online Outdoor UPS 6kVA ~ 30kVA**

High Performance Rugged Design Online Outdoor UPS

[www.reliability-power.com](http://www.reliability-power.com)

# Online Outdoor UPS

## 6kVA—30kVA

**Online Outdoor UPS with superior performance**, specially designed for **outdoor & industrial** Communication/ Networking/ Traffic & Control Systems Equipment and other applications. Outdoor UPSs are specially designed for High Temperature resistance, Frost protection, corrosion resistance, dust and water protection. Along with strong EMI protection and robust electrical design the UPS is ideal for all outdoor & industrial applications.

High frequency on-line double conversion technology

DSP (Digital signal processors) control technology

Active power factor correction (APFC), input power factor up to 0.99

Output power factor 0.9

Wide input voltage range (110 V - 300 Vac) and frequency range (40 - 70 Hz)

Auto sensing frequency

50 / 60 Hz frequency conversion

Cold start

Rear ventilation design and variable speed fan

Effective software and hardware protection

Quick and stable charging, 90% capacity restored in 4h (standard model UPS)

Strong Environmental adaptability

High Reliability, Energy Saving & Environmental Protection

Wide adaptability to Power Grid

Linear derating in low voltage input reducing battery discharging times

Settable delayed start when power is restored

Advanced battery management (ABM)

Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode

Multi-platform communications: RS232 (standard), USB/RS485 /SNMP / dry contacts (optional )

Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, high performance charger

### High Performance Outdoor UPS/ Power Module



### Robust & Durable Outdoor Enclosure



Specifications

MODEL					
Capacity	6kVA	10kVA	15kVA	20kVA	30kVA
<b>INPUT</b>					
Rated voltage	380/ 400/ 415 (L-L)				
Voltage range	304~478 Vac (L-L),full load 228V~304 Vac (L-L), load decrease linearly according to the min phase voltage				
Rated frequency	50/ 60Hz (auto-sensing)				
Frequency range	40 ~ 70Hz				
Power factor	>0.99				
Bypass voltage range	Selectable, default ~ 20% +15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%				
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz				
Total harmonic distortion (THDI)	<3% (full Linear Load)				
Bypass overload	125%: Long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms				
<b>OUTPUT</b>					
Rated Voltage	380/ 400/ 415 (L-L)				
Voltage regulation	±1% (full Linear Load)				
Frequency	Synchronized with utility in mains mode, 50/60 Hz ±0.1% in battery mode				
Waveform	Sinusoidal				
Power Factor	1				
Total harmonic distortion (THDv)	<1% (full Linear Load), <3% (full non-linear load according to IEC / EN62040-3)				
Crest factor	3:1				
Overload	<110%, 60min; 110%~125%,10min; 125%~150%,1min; >150%, 200ms				
<b>BATTERIES</b>					
DC Voltage	±240VDC (Selectable, 32 - 40pcs)				
Charging current	10A max				
Charger Voltage precision	1%				
Recharge time	Long time model: depend on the capacity of battery				
<b>SYSTEM</b>					
Efficiency	95% Max				
Transfer time	0 ms				
Max. number of parallel connections	4				
Protections	Short Circuit, Overload, Battery Low Voltage, Overvoltage, Undervoltage, fan failure				
Communications	RS232, USB, RS485, EPO, Dry contacts, Parallel port (Standard) SNMP card, WI-FI card, GPRS card, SMS alarms (Optional)				
Display	LED + 5 inches LCD touch screen				
Operating temperature	-10°C ~ 65°C				
Storage temperature	-40°C ~ 70°C				
Relative humidity	0 ~ 95% (Non-Condensing)				
Altitude	<1000m, Load derated 1% per 100m from 1000 ~ 2000m				
IP Rating	IP55 (IP65 Optional)				
Noise level at 1 m	55dB @ 100% load, 52dB @ 50% load			58dB @ 100% load, 55dB @ 50% load	
Dimensions (W × D × H) (mm)	Customised as per UPS Rating & Battery Backup Requirements				
Net weight (kg)	Customised as per UPS Rating & Battery Backup Requirements				

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