



RELIABILITY Power Systems

Online Outdoor UPS 1000 ~ 10,000VA

High Performance Rugged Design Online Outdoor UPS

www.reliability-power.com

Online Outdoor UPS

1000VA—10000VA



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

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, and 12 A charger (2/3 kVA only)

Specifications

ONLINE OUTDOOR UPS			
Capacity	1 kVA / 900 W		—
	10 kVA / 9000W		
Rated voltage	208 / 220 / 230 / 240 Vac		
Voltage range	110-176 Vac (linear derating between 50% and 100% load); 176 - 280 Vac (no derating); 280 - 300 Vac (derating 50%)		
Frequency	40 - 70 Hz (auto-sensing)		
Power factor	1 0.99		
Bypass voltage range	- 25% - +15% (settable)		
Total harmonic distortion (THDi)	6%		
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)		
Voltage regulation	+1%		
Frequency	45 - 55 Hz or 55 - 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)		
Waveform	Sinusoidal		
Power factor	0.9		
Total harmonic distortion (THDv)	ñ 2% (linear load), ñ 5% (non-linear load)		
Crest factor	3:1		
Overload	105% - 125% for 1 min, 125% - 150% for 30 s, > 150% for 300 ms		
DC voltage	24Vdc—240Vdc		
Charging current (max.)	6A		
Recharge time	80% capacity restored in 8 hours		
Efficiency	a 90% (Mains mode)	a 91% (Mains mode)	* 92% (Mains mode)
	a 85% (Battery mode)	a 86% (Battery mode)	* 87% (Battery mode)
	a 95% (ECO mode)	a 96% (ECO mode)	* 97% (ECO mode)
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)		
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection		
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)		
Display	LCD + LED		
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC 62040-3		
Operating temperature	-10°C - +60°C		
Storage temperature	-25°C - SSE (without batteries)		
Relative Humidity	0 - 95% (non-condensing)		
Altitude	ñ 1000 m, derating 1% for each additional 100 m		
IP rating	IP 55		
Noise level at 1m	s 50 dB		
Dimensions (W• D H) (mm)	Customized as per Batteries Backup Requirement		
Net weight (kg)	Customized as per Batteries Backup Requirement		

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