

OUTDOOR ONLINE UPS

1KVA~3KVA



Smart online outdoor UPS is the ideal solution for providing maximum protection and power quality for outdoor communication equipment and network equipment. It has an effective design of high-temperature resistance, cold resistance, salt-spray resistance, corrosion resistance, dust prevention, water resistance and lightning protections, and it is featured with wide range of input voltage and frequency, sinusoidal, stable and reliable output waveform. It provides significant further immunity from mains disturbances and mains power outage for network communication equipment. Therefore, this series UPS are widely used in the outdoor communication base station applications in fields such as communication, radio & television and aviation.

FEATURES

Strong environmental adaptability

- IP55 protection, dust prevention and waterproof, perfectly fit in harsh environment
- High/low temperature resistance design, sun-shading, heat insulation and temperature compensation designs, operating normally at $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- Lightning protection, equipped with no less than 1.2KV/10KA pluggable SPD

Strong adaptability to power grid

- Wide input voltage range (110 Vac ~ 300 Vac) and frequency range (40 Hz ~ 60Hz) make it fully adapt to harsh power grid environment
- Input has high voltage protection circuit which enable to withstand high voltage beyond the input voltage range without damage
- Online double conversion technology provides significant further immunity from surge, noise and harmonic interference of power grid against the communication equipment

Variety of accessories base on demands

- Provide variety of optional installation accessories for the demands of rack-mounted, holding poles and floor mounting
- Provide the optional function of second disconnection, UPS can be set to cut off the power supply for the secondary load when powered from the battery to provide the main load greater autonomy, and provide the dry contact signal for second disconnection as well
- Optional SNMP card is available to perform remote monitoring and management

Advanced technology and powerful functions

- Adopt DSP technology to simplify the control circuit and improve the system stability and reliability
- Adopt PFC technology and high input power factor reducing the harmonic pollution, increasing the grid utilization and decreasing the UPS running cost
- The efficiency of the UPS is more than 90%, reducing the UPS energy consumption and decreasing inner temperature
- Double conversion online mode and zero transfer for switching between mains mode and battery mode to ensure power continuity for loads
- Provide unattended function. The UPS automatically restarts and provides power continuity for loads when battery discharge is protected and mains power is restored
- Fault diagnosis function enables to judge the cause of failure and fault location quickly
- Cold start function enables to switch on the UPS in the absence of mains power
- Contain RS232 and dry contacts interface

SPECIFICATIONS

MODEL	1KVA	2KVA	3KVA
Power	800W	1600W	2400W
INPUT			
Input phase	Single-phase three-wire (1Φ + N + PE)		
Rated voltage	220Vac		
Input voltage range	110 Vac ~ 140 Vac (half load), 140 Vac ~ 300 Vac (full load)		
Input frequency range	45 ~ 55Hz		
Power factor	≥0.99		
Bypass input voltage range	186Vac ~ 252Vac		
Battery voltage	24Vdc	48Vdc	72Vdc
Inbuilt battery space	2 x 12V / 65 ~ 100AH	4 x 12V / 65 ~ 100AH	6 x 12V / 65 ~ 100AH
OUTPUT			
Output phase	Single-phase three-wire (1Φ + N + PE)		
Rated voltage	220Vac		
Voltage regulation accuracy	± 2%		
Frequency accuracy	Synchronized with utility in mains mode, 50Hz / 60Hz ± 0.05 Hz in battery mode		
Power factor	0.8		
Waveform distortion	≤ 2% (Resistive load); ≤ 5% (non-linear load)		
Crest factor	3:1		
Inverter overload capability	108% < load ≤ 125% for 10 min, 125% < load ≤ 150% for 30s, load > 150% for 300 ms		
SYSTEM			
Efficiency	≥ 90%		
Transfer time	≤ 0 ms		
Pretections	Output short circuit, output overload, overtemperature, battery low voltage, output overvoltage / undervoltage, fans fanlt		
Communication interfaces	Standard configuration: RS232 and dry contacts, Optional configuration: SNMP card, RS485, temperature compensation		
Power distribution units	Mains / battery input / Output circuit breaker, input / output terminal, output sockets, maintenance bypass switch, SPD		
Display	LED		
OTHERS			
Operating temperature	-20°C ~ 50°C		
Storage temperature	-45°C ~ 70°C (without batteries)		
Relative humidity	0% ~ 95% (non-condensing)		
Altitude	≤ 1000m, > 1000m (derating 1% for each additional 100m)		
IP rating	IP 55		
Noise	< 50 dB (at 1 m)		
Dimensions(WxDxH)	600 x 334 x 990	600 x 434 x 1110	
Color	White		

* All specifications subject to change without notice.

Chuphotic.BRO-48.UPS OUTDOOR.Rev1.00/2018

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