12VDC Input Online UPS





Nowadays, almost all online UPS are made with 36VDC input and the minimum power is only 1kVA, which requires at least 3pcs of batteries. This obviously increases the initial investment cost for the customers who need to backup only the light-duty loads - typically less than 500 watts. Staba launches the 12VDC input online UPS to meet this kind of demand. Integrated with the latest double conversion online technology and a bidirectional inverter, it can deliver an 0ms interruption output from 300W to 800W with only one single 12V lead-acid or lithium battery. It also has a charging current in 10A, which ensures customers to charge the battery to full level in shorter time, 5 - 10 times faster than the traditional online UPS.

Features:

- Designed to work with single 12VDC battery: lead-acid, LiFePO4 or Sodium (Na+) batteries.
- High frequency online double conversion technology.
- DSP (Digital signal processors) control circuit.
- Transformerless design, built-in bi-directional inverter, higher output efficiency and lower cost.
- Pure sine wave output with zero interruption.
- Max charging current 15A, designed for long time backup.
- Generator compatible.
- UPS starts up without battery.
- Quiet operation (fanless design for 300W /400W /500W).
- Remote On/Off (ROO) function optional.
- Economic operation mode (ECO) optional.

Technical Specifications

MODEL	W300L	W400L	W500L	W600L	W800L
GENERAL					
Capacity	300VA/300W	400VA/400W	500VA/500W	600VA/600W	800VA/800W
Topology	Double conversion online				
AC INPUT					
Input Voltage	90-310 VAC				
Nominal Input Frequency	45-65 Hz				
AC OUTPUT					
Rated Output Voltage	220V/230 VAC				
Output Voltage Range	±2%				
Output Frequency	AC mode: same as input frequency DC mode: 50/60 Hz±0.1Hz				
Output Waveform	Pure sine wave				
Max Efficiency	AC mode: >90%; DC mode: >80%				
Overloading Capability	<110% for long time, 110%-120% for 30s, >120% for 3s, >150% for 1s				
BATTERY CHARGER	50Hz/60Hz				
Battery Type	Lead acid battery, LiFePO4 battery				
Max Charging Current	10-15A				
Max Charging Voltage	14.4 VDC default, 13.6-15 VDC adjustable (0.1 VDC incremental)				
Floating Charging Voltage	13.8 VDC default, 13.2-14.4VDC adjustable (0.1 VDC incremental)				
DISPLAY & INDICATORS					
Digital Display	Input voltage, output voltage, output frequency, load rate				
Icon / Symbol	AC mode, DC mode, load rate, charging battery/battery capacity, overload, other errors				
PROTECTIONS					
Protections	Overload, overheat, short circuit, battery over charge/discharge, battery reverse connection				
OTHER FUNCTIONS					
Optional Functions	3-stage charging current selector, RS232/USB communication port, bypass switch, battery type selector, wired remote control with display				
Cooling Mode	Natural			Smart cooling fan	
Generator Compatible	Yes				
CERTIFICAITONS					
Certification	CE, CB, SON, SASO, RoHS 2.0				
OPERATING CONDITIONS					
IP Level	IP20				
Storage Temperature	-10°C ~ 40°C				
Operating Temperature	-15°C ~ 40°C				
Operating Humidity	10%-90%, non-condensing				
Packing					
Product Size (W x H x D)	331x263x112 mm				
Package Size (L x W x H)	380x360x160 mm				