

PL3 1~3KVA -Li

Online UPS with Li-ion Battery

Tower-type(220V/230V/240V)



Feature:

-  **Zero Transfer time:** True Double Conversion Online UPS (IEC62040-3: VFI-SS), providing the most comprehensive protection for mission-critical equipment from a wide range of power quality issues.
-  **3-level Inverter for the best loading capability:** 3 level inverter topology, supports with extensive range of load, including half-wave rectifier load (blow dryer, Solenoid valves, Laser printer etc.), Induction motors load., providing 1.0 Output Power Factor, 50/60 Hz Automatically adapting, Selectable voltage, perfectly match all kinds of application.
-  **High Efficiency:** With up to 93% efficiency in double conversion online mode and 97% ECO mode, greatly save energy expenses for customer in whole product life.
-  **Li-ion Battery Powered:** Provides up to 3x backup time in 50% dimension, compared with regular Lead-acid UPS products.
-  **Dry Contact control Interface for BMS:** Incorporated a Dry Contact interface for BMS-oriented control of charging and discharging based on in-depth BMS information.
-  **ModBUS interface with BMS:** Incorporated a ModBUS (RS485) interface with BMS to achieve precise battery information (voltage/soc/soh, etc.) or rational UPS & battery pack behaviour coordination and backup time prediction. The ModBUS works with BMS Dry Contact as communication redundancy, avoiding the critical communication crashes caused by any single fault.
-  **Li-ion Battery Charger:** Constant current, Constant voltage, Floating, Turn-Off 4-state charger for LiFePO4 battery, with multiple loop independent monitor and protection mechanism, open to customize the logical behavior for customer-specified battery pack.
-  **Ultra Wide Input Mains range:** Strong compatibility with ultra-wide electric environments, stays well with ultra wide range mains of 65~145VAC, 40~70Hz, dramatically reducing battery discharge, prolonging battery life.
-  **Best Loading Capability:** Up to 1.0 Output Power Factor, 50/60 Hz automatically adapting, selectable voltage, perfectly matching all kinds of applications.
-  **Genset Compatible:** Capable of working with a wide range of Gensets, isolating fluctuations and noise from Gensets, providing stable and clean power supply to the user's equipment.
-  **DSP Digital Control Based:** Advanced DSP-based digital control brings high performance of high input Power factor, low distortion, supplying the load with perfect sine wave AC power supply.
-  **High Input power factor:** Thanks to digital controlled PFC Technology, >0.99 input power factor, effectively avoiding power pollution, saving energy expenses for customers.
-  **Reliable design:** Made with a strong Glass fiber base (FR4) double-sided PCB, company with large span component, greatly improving reliability in harsh environments, Well-designed ventilation and conformal coating, avoiding dust accumulation, improving resistance to corrosion.
-  **Open to customization:** Based on a powerful controller and open architecture, the product is able to be customized to the needs of integration of automatic system or intelligent supervisory system.

Specification:

Model		PL3 1KS-Li	PL3 1KL-Li	PL3 2KS-Li	PL3 2KL-Li	PL3 3KS-Li	PL3 3KL-Li
Capacity		1kVA/1kW		2kVA/2kW		3kVA/3kW	
Topology		Double Conversion Online UPS					
Phase		Single Phase Input Single Phase Output					
Mains Input	Wiring	L/N+PE					
	Rated Voltage	208/220/230/240VAC					
	Voltage Range	90~300VAC					
	Frequency Range	40Hz-70Hz					
	Input Power Factor	≥0.99					
AC Output	Wiring	L/N+PE					
	Output Voltage	208/220/230/240VAC					
	Voltage Regulation	±1%					
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)					
	Waveform	Sine Wave					
	Distortion (THDV%)	<2%(Linear Load); <8%(None-Linear Load);					
	Over load capability	100%~105% continuous. 60Sec.@105%~125% Rated Load 10Sec.@125%~150% Rated Load 0.3Sec.@>150%Rated Load					
Efficiency	Line Mode	90%		91%		92%	
Battery & Charger	Rated Battery Voltage	51.2/48VDC(default for 16cell of LiFePO4)					
	Battery Capacity	615WH	External Battery Depends	922WH	External Battery Depends	1229WH	External Battery Depends
	Backup Time	>30mins @ Full Load		>20mins @ Full Load		>20mins @ Full Load	
	Backup Time 2 (External Battery Module)	51.2V50AH-150mins 51.2V100AH-300mins @ Full Load		51.2V50AH-75mins 51.2V100AH-150mins @ Full Load		51.2V50AH-50mins 51.2V100AH-100mins @ Full Load	
	Charging Current	1~3KS Standard Model with Internal Battery:4A 1~2KL Long Backup Time Model :4A / 8A(Optional)/ 12A(Optional) 3KL Long Backup Time Model :6A / 12A(Optional)/ 16A(Optional)					
	Charging Voltage	56.8V(default for 16cell of LiFePO4) / Customerized according to battery request					
	Charger Behavior & Protection	CC. CV. Floating. Turn-Off 4 states 3 over voltage protection loop, preserve interface for over temperature/over pressure switch off interface					
	Physical	Chassis Style	Tower-type				
Tower Dimension		1KL~3KL: 190×323×368MM 1KS~3KS:190×323×420MM					
Weight (Rack)		14.8kg	8.5kg	17.2kg	8.6kg	20.3kg	9.8kg
HMI	LED DISPLAY	Mains / battery status, Load level, battery level, Operation Mode					
	LCD DISPLAY with LED indicator	Input Mains Voltage, Frequency, Load level, Operation Mode, Health Status,Battery SOC					
	Standards COMMUNICATION	1.RS232 PORT/USB Card (not HID) ; 2.Dry Contact Interface for BMS control ; 3.Modbus For BMS interface ;					
	Optional Extension Card	4.NetWork Card: Support SNMP/TCP/IP for remote monitoring the UPS via Smart Phone APP, Web page, PC Monitor Software , Support Server / NAS shutdown ; 5.RS485-Modbus Card, LAN(TCP IP)-Modbus Card ; 6.Mini AS400 Relay Card ;					
Operating Environment Endurance	Temperature range	-10~50°C					
	Relative Humidity	0-98% (Non-condensing)					
	Acoustics Noise	<55dB @ 1 meters					



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