

Rainbow serials

1-10KVA

Single phase in/single phase out

Three phase in/one phase out

LiFePO₄ Online UPS

Small size, long back time, easy to install



Feature:

1、Zero transfer time、input power factor 0.99、Ultra-wide input voltage and frequency range

2、Double conversion online UPS, zero transition time for switching between battery and mains powered modes. support for fixed-frequency output, effectively ensure the reliability of the load power supply.

3、DSP digital control technology

Adopting advanced DSP digital control technology to provide stable and reliable green energy power supply.

4、Full color touch human-machine interface

5、Excellent Load Adaptability

50Hz/60Hz power supply system Adaptive output 200/208/220/230/240Vac 50/60Hz, widely adapted to a variety of voltage and frequency system equipment.

6、Intelligent LifePO4 BMS

Advanced battery management system utilizes battery energy more efficiently, precisely controls battery charging and discharging, avoids over-charging and over-discharging to prolong service life, and accurately monitors the temperature of each battery cell. Adopting low-power chips and circuit components to reduce the loss of battery power.

7、Ultra long-delay all-in-one product design

The long-delay all-in-one design integrates all the necessary components, providing the advantages of saving time and space, improving ease of installation, and convenient, safe and quick buy-plug-and-play. This design is particularly suitable for those who need to run for a long time and limited installation space application scenarios, data centers designed for a new generation of highly integrated power supply and distribution systems. Want a long delay and do not want the traditional long delay requires external battery pack installation is cumbersome, complex operation, etc. is the ideal choice. The integrated design not only saves space, but also facilitates safe management and maintenance.

8、 Built-in high-capacity power lithium-iron phosphate battery cell

Lithium Iron Phosphate batteries are used in a wide range of applications, and their safety performance is very stable. The P-O bond in the crystal is solid and difficult to decompose, and even at high temperature or overcharging, there is no structural collapse and heating or formation of strong oxidizing substances. The cycle life reaches more than 2000 times, and the theoretical life will reach 7~8 years. Supports high current 2C rapid charging and discharging. With an operating temperature range from -20°C to +75°C, it maintains good performance in a variety of extreme environments.

Applications:

Computer data centers, communication equipment, medical equipment, industrial automation, transportation facilities, financial institutions, large event performances, home applications, commercial applications, and information technology applications.

Product specification

Model	SWD1101-Li (1K)	SWD1102-Li (2K)	SWD1103-Li (3K)
Rated Power (VA/W)	1KVA/900W	2KVA/ 1.8KW	3KVA/ 2.7KW
UPS type	Double conversion online UPS		
Phase	Single phase in/single phase out		
	Input		
Input system	Single phase two wires (L、N) +PE		
Nominal voltage	208/220/230/240Vac		
Frequency	50Hz/60HZ		
Voltage range	90~300VAC		
Frequency range	(40~70)±0.5Hz		
Input power factor	>0.99		
	Output		
Output wiring system	Single phase two wires (L、N) +PE		
Output voltage	208/220/230/240Vac Inverter Mode output		
Output voltage accuracy	±1%		
Frequency	50±4Hz/60±4Hz(phase-locked to follow mains) 50/60Hz±0.1%(fixed frequency mode)		
Waveform	pure Sine wave		
(THDV%) Harmonic Distortion	THD <2% (Linear Load) THD <7% (non-linear Load)		
Output power factor	0.9		
Overload capability	1min@ 10.5%~125% of rated load, 10s@ 126%~150% rated load, 0.5s@ >150% Rated Load		

Transfer time	Line mode <-> Battery Mode 0ms				
Efficiency					
Line Mode	90%		90.5%		91%
Battery Mode	92%		92%		93%
Battery					
Lithium Voltage	6.4VDC			6.4VDC	6.4VDC
Lithium Battery Capacity	1792Wh	3584Wh	5376Wh	3584Wh	5376Wh
Quantity	2pcs	4pcs	6pcs	4pcs	6pcs
Backup Time	120Minutes	240Minutes	360Minutes	120Minutes	180Minutes
Capacity expansion	Support external lithium battery pack expansion				
Charger current	Standard 4A; expandable to 25A,				
structural shape					
Enclosure type	tower				
Demension (WHL) mm	215(W)X512 (H)X560 (L)mm				
Weight KG	28	38.5	49	41	51.5
Full color touch human-machine interface					
Touch screen	Display input and output voltage, current, frequency, load percentage, working mode, UPS status, lithium battery status				
Communications and monitor	Standard RS232, optional: Network monitoring card, support PC, mobile phone remote monitoring, dry node card, MODBUS monitoring card				
Environmental parameters					
Noise	<50dB@1meter				
Operating temperature range	-10~45°C				
humidity range	0~98%No dew				

Model	SWD1106-Li (6K)	SWD1110-Li (10K)	SWD3110-Li (10K)				
Rated Power (VA/W)	6KVA/5.4KW	10KVA/ 9KW	10KVA/ 9KW				
UPS type	Double conversion online UPS						
Phase	Single phase in/single phase out		Three phase in /single phase out				
Input							
Input system	Single phase two wires (L、N) +PE		Three phase 4 wires (L1、L2、L3、N) +PE				
Nominal voltage	208/220/230/240Vac		380V/400/415				
Frequency	50Hz/60HZ						
Voltage range	90~300VAC						
Frequency range	(40~70)±0.5Hz						
Input power factor	>0.99						
Output							
Output wiring system	Single phase two wires (L、N) +PE						
Output voltage	208/220/230/240Vac Inverter Mode output						
Output voltage accuracy	±1%						
Frequency	50±4Hz/60±4Hz(phase-locked to follow mains) 50/60Hz±0.1%(fixed frequency mode)						
Waveform	pure Sine wave						
(THDV%) Harmonic Distortion	THD <2% (Linear Load) THD <7% (non-linear Load)						
Output power factor	0.9						
Overload capability	1min@ 10 5%~ 125% of rated load,10s@ 126%~ 150% rated load,0 .5S@ >150% Rated Load						
Transfer time	Line mode <-> Battery Mode 0ms						
Efficiency							
Line Mode	91%						
Battery Mode	93%						
Battery							
Lithium Voltage	19.2VDC		19.2VDC				
Lithium Battery Capacity	5760Wh	10752Wh	16128Wh	8640Wh	16128Wh	8640Wh	16128Wh
Quantity	12pcs	12pcs	18pcs	18pcs	18pcs	18pcs	18pcs
Backup Time	60Minutes	120Minutes	180Minutes	60Minutes	120Minutes	60Minutes	120Minutes

