

Wall All-in-one Energy Storage System

WSH-5KW51.2V100AH/200AH/300AH



WSH series integrates inverters, controllers, and batteries, and can expand the battery capacity according to customer needs. It is an independent household solar power station meets the needs of households for arbitrary electricity consumption.



ADVANTAGES-FEATURES



Pure Sine Wave Output, Adaptable to Different Loads



UPS Function: Transfer Time <20ms



Easy Installation with Modular and Stacked Design



Multiple Working Mode: Photovoltaic/Battery/AC Priority



Configurable Proportion of Photovoltaic, Mains, and Battery Input



On&off-grid Energy Storage System Can Maximize the Use of Photovoltaics



6,000 Cycle Times, 10 Years Lifespan



Technical Data

Model	WSH-5KW51.2V100AH	WSH-5KW51.2V200AH	WSH-5KW51.2V300AH
Solar Charge Data			
Max. PV Array Power	5500W		
Max. DC Voltage	450VDC		
MPPT Voltage Range	120~450V		
MPPT Tracker / Strings	1		
Max. Solar Charge Current	100A		
Max. AC Charge Current	80A		
Max. Charge Current	100A		
Inverter & Controller Data			
Rated Power	5000VA/5000W		
Efficiency (Peak)	Up to 93.5%		
Grid Voltage / Range	230 VAC \pm 5%		
Frequency	50Hz / 60Hz		
Waveform	Pure sine wave		
Transfer Time	10ms (For Personal Computers) ; 20ms (For Home Appliances);		
Surge Power	10000VA		
Cooling	Natural(Battery), Fan (Inverter)		
Dimensions (W*D*H)	550x420x225mm		
Isolation Transformer Weight	12.1kg		
Protection			
Arc Fault Protection	Yes (Optional)		
Anti-reverse Protection	Yes		
Anti-island Protection	Yes		
DC Over Current Protection	Yes		
Insulation Monitoring	Yes		
Residual Current Monitoring	Yes		
Other Protection	AC Over current; AC Over voltage; Over temperature Protection		
Battery Data			
Nominal Voltage	51.2V		
Rated Capacity	100Ah	200Ah	300Ah
Max. Charging/Discharging Current	100A	200A	300A
Dimensions (W*D*H)	235x480x461.2mm	235x460x922.4 mm	275x480x1383.6 mm
Net Weight	Approx.41kg	Approx.82kg	Approx.123kg
Battery Cycle Life	\geq 6000 times, 25°C/77°F, 80%DOD		
SOC Estimation	Yes		
Intelligent Balance	Yes		
GPS Positioning	Yes		
Sleep and Wake-up	Yes		
System Data			
Nominal Output Power	5000W		
Rated Capacity	5.12kWh	10.24kWh	15.36kWh
Cell Type	LiFePO4		
Ingress Protection Rating	IP20 / IP65		
Warranty	5 Years		
General Data			
Interface	RS232/RS485/Dry contact		
Display	Touch Key + LCD		
Relative Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	Charging: 0°C~50°C / Discharging: -15°C~60°C		
Altitude	>2000m Derating		
Battery Safety Standard	EN/IEC 62109-1 ; EN/IEC 62109-2; SONCAP		
Inverter Safety Standard	UK:G98,G99;Italy: CEI 0-21; Germany:VDE 4105,VDE0124; Austria: TOR Type: A/B:2022,OVE R25:2020 ; SONCAP		