PV Storage System Specifications

5K/5KWh



- Combines energy storage and inverter functionality in a single unit, reducing installation time and costs, making it especially suitable for residential and small commercial applications.
- Delivers 94% to 99.5% efficiency for batteries and inverters, ensuring high energy conversion rates and minimizing energy waste.
- Capable of handling up to 5000W of photovoltaic power, providing ample energy input for homes or businesses.
- Utilizes LFP (Lithium Iron Phosphate) batteries with a lifespan of up to ≥6,000 cycles, ensuring long-term energy supply and stable storage performance.
- Equipped with WiFi connectivity, enabling real-time monitoring of system status and energy usage, allowing users to manage and track their power systems conveniently.

Model	5K/5KWh
Battery	
Cell Materials	LiFePO4
Pack Method	1P16S
Nominal Capacity	102Ah
Nominal Voltage	51.2V
Energy	5222Wh
Communication Method	CAN
Charge Cut-off Voltage	58.4V
Discharge Cut-off Voltage	41.6V
Maximum Charging Current	100A
Maximum Discharge Current	100A
Charging Mode	Two-Stage/Three-Stage Charging/PV Charging
Operating Efficiency	98%
Cycle Life	≥6,000 Times
Internal impedance	≤100mΩ
Ambient Temperature	-10°C~50°C
PV	
PV Charging Method PV	MPPT
PV Input Maximum Power PV	5000W
MPPT Operating Voltage MPPT	120~430Vdc
PV input Voltage Range PV	150V~500V

MDDT O	DDT	120// 120//-
MPPT Operating Voltage M	PPI	120Vdc~430Vdc
Starting Voltage PV Maximum input Voltage PV		150Vdc 500Vdc
MPPT Quantity MPPT	PV	1
Maximum Input Current		30A
Max Charging Current		100A
AC Input		
Main Topology		L+N+PE
Nominal Voltage		Default220V, 230/240VAC
Input Voltage Range		90~280V(Default APP); 170~280V(UPS)
Frequency Range		45~55Hz, Default
Power Factor		≥0.99
AC Output		
Main Topology		L+N+PE
Output Voltage Waveform		Pure Sine Wave
Output Voltage		Default 220VM, 230/240VAC
Voltage Regulation		≤±5%
Nominal Output Power		5000W
Power Factor		1
Frequency Range	Lir	ne Mode: Synchronized range, Battery Mode: 50/60Hz±0.1%
Harmonic Distortion		≤3% (Linear Load); ≤5% (Non-linear Load PF=0.7)
Transfer Time		APP: Line Mode to Battery Mode 10ms(Typical)
		UPS: Line Mode to Battery Mode 10ms(Typical)
Overlord Capacity	1min@102%~	110% Load; 10s@110%~130% Load; 3s@130%~150% Load; 0.2s@>150% Loa
Maximum Charging Current	t of AC Power	A08
Bypass Current		40A
Switching Time		<10ms
Efficiency		
Battery Mode(Peak Efficience	cy)	94%
MPPT Tracking Efficiency (F	Peak Efficiency)	99.5%
Line Mode		ll R load, without battery connect;Efficiency VS load curve with different input Voltage.
Battery Mode	>91.5	% (Full R load;Efficiency VS load curve with different input Voltage.
Standby Power		< 60W (No-load mode, battery disconnected)
General paramete	rs	
IP Protection Level		IP21
Ambient Temperature		-20℃-50℃
Operating Temperature Rai	nge	-20°C~+60°C
Ambient Humidity		5-95%(No condensation)
Display Mode		LCD
Warranty		5 years for battery cells and 2 years for inverter boards
Operating Altitude		<2000m
Cooling		Intelligent air cooling
Size(W*H*Dmm)		800*455*140mm
Weight		54.5kg
Noise		<60dB