



5kW 51.2V Power Stacked Lithium Battery



Parameter

Stacked Energy Storage Battery (Home)

Communication CAN/RS485/RS232(WIFL,blue-tooth is optional and need extra cost) Product size/unit S50*500*185mm N.W./unit 40kg Battery Input Rated Battery Input Voltage 51.2V (Minimum Startup Voltage 44V) Hybrid Charging Max Charging Current 80A Battery Voltage Range 40Vdc~60Vdc ± 0.6Vdc(Under voltage Warning/Shutdown Voltage/Warning/Over voltage Recovery) Solar Input Maximum PV Open-circuit Voltage 500VDC PV Working Voltage Range 120-500VDC MPPT Voltage Range 120-450VDC Maximum PV Input Current 18A Maximum PV Input Power 5200W Maximum PV Charging Current 80A AC Input (On-grid) Mains Maximum Charging Current 60A Rated Input Voltage Range UPS Mains Mode: (170VAC~280VAC)±2% APL Generator Mode: (90VAC-280VAC)±2% Frequency 50Hz/ 60Hz (Automatic Detection) Mains Charging Efficiency 95% Switch Time (bypass and inverter) Maximum Bypass Overload Current 40A	Model	5kw+5.12kwh	5kw+10.24kwh	5kw+15.36kwh	5kw+20.48kwh	5kw+25.6kwh
Total number Total sergy capacity 5.12km 10.24km/h 15.36km 20.48km/h 20.48km/h 25.58km/h 25.58km/h 25.58km/h 20.48km/h 25.58km/h 25.58km/h 20.48km/h 25.58km/h 20.48km/h 25.58km/h 20.48km/h 20.48km/h 25.58km/h 20.48km/h 20.48k	Single module capacity			5.12kWh		
Total energy capacity 5.12kwh 10.24kwh 15.36kwh 20.48kwh 25.6kwh Standard voltage 51.2V 33.2v-57.6V Standard Charging Current 100.A Standard Charging Current 50.A Standard Charging Current 40.Xiv.Standard Charging Current 40.Xiv.Standard Charging Current Standard Charging Current Charging Current Standard Charging Current Charging Cur		1pcs	2pcs	3pcs	4pcs	5pcs
Standard voltage	Total energy capacity	5.12kwh	-	15.36kwh	20.48kwh	25.6kwh
Working voltage				51.2V		
Standard discharge current	Working voltage					
Suggested DOD 90%						
Humidity	Standard charging current	50A				
Installation Stacked IP rating IP20	Suggested DOD	90%				
Prating	Humidity	20%-60%				
Communication CAN/RS485/RS232(WIFI,blue-tooth is optional and need extra cost) Product size/unit 550*500*185mm N.W.unit 40kg Battery Input Rated Battery Input Voltage 51.2V (Minimum Startup Voltage 44V) Hybrid Charging Max Charging Current 80A Battery Voltage Range 40Vdc~60Vdc ± 0.6Vdc(Under voltage Warning/Shutdown Voltage/Over voltage/Warning/Over voltage Recovery) Solar Input Maximum PV Open-circuit Voltage 500VDC PV Working Voltage Range 120-500VDC MPPT Voltage Range 120-500VDC MPPT Voltage Range 120-500VDC Maximum PV Input Current 18A Maximum PV Input Power 5200W Maximum PV Input Qurrent 80A AC Input (On-grid) Mains Maximum Charging Current 60A Rated Input Voltage 220/230VAC Input Voltage Range UPS Mains Mode: (170VAC~280VAC)±2% APL Generator Mode: (90VAC~280VAC)±2% Frequency 50Hz/ 60Hz (Automatic Detection) Mains Charging Efficiency 99% Switch Time (bypass and inverter) 10ms(Typical Value) Maximum Bypass Overload Current 40A AC Output (On-grid) Output Voltage Waveform Pure Sine Wave Rated Output Voltage (VAC) 230VAC (200/208/220/240VAC) Rated Output Voltage (VAC) 350/4500/4800/5000) Rated Output Power (VA) 5000(4350/4500/4800/5000) Rated Output Power (VA) 5000(4350/4500/4800/5000) Rated Output Power (WA) 5001(4350/4500/4800/5000) Pask Power 100000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz Maximum Efficiency >90%	Installation	Stacked				
Product size/unit 550*500*185mm N.W./unit 40kg Battery Input Rated Battery Input Voltage Rated Battery Input Voltage 51.2V (Minimum Startup Voltage 44V) Hybrid Charging Max Charging Current 80A Battery Voltage Range 40Vdc~60Vdc ± 0.6Vdc(Under voltage Warning/Shutdown Voltage/Over voltage/Narning/Over voltage Recovery) Solar Input 500VDC PV Working Voltage Range 120-500VDC MPPT Voltage Range 120-500VDC Maximum PV Input Current 18A Maximum PV Input Power 5200W Maximum PV Input Power 60A Rated Input Voltage Range 220/230VAC Input Voltage Range UPS Mains Mode: (170VAC~280VAC)±2% APL Generator Mode: (90VAC~280VAC)±2% Frequency 50Hz/ 60Hz (Automatic Detection) Mains Charging Efficiency 595% Switch Time (bypass and Inverter) 10ms(Typical Value) Maximum Bypass Overload Current 40A AC Output (On-grid) 230VAC (200/208/220/240VAC) Rated Output Voltage (VAC) 230VAC (200/208/220/240VAC) Rated Output Power (VA) 5000(4350/4500/48	IP rating	IP20				
N.W./unit 40kg Battery Input Rated Battery Input Voltage 51.2V (Minimum Startup Voltage 44V) Hybrid Charging Max Charging Current 80A 40Vdc-60Vdc ± 0.6Vdc(Under voltage Warning/Shutdown Voltage/Over voltage/Warning/Sbutdown Voltage/Warning/Sbutdown Voltage 800VDC Maximum PV Open-circuit Voltage 900VDC Maximum PV Input Current 80A AC Input (On-grid) Mains Maximum Charging Current 80A AC Input (On-grid) Mains Maximum Charging Current 80A AC Input (On-grid) 90SMains Mode: (170VAC~280VAC)±2% APL Generator Mode: (90VAC~280VAC)±2% Frequency 90S% Switch Time (bypass and Inverter) 10ms(Typical Value) Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Mode (170VAC~280VAC) 230VAC (200/208/220/240VAC) Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 90SMains Maximum Bypass Overload Current 40A AC Output (On-grid) 9	Communication	CAN/RS485/RS232(WIFI,blue-tooth is optional and need extra cost)				
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Rated Battery Input Voltage	N.W./unit	40kg				
Hybrid Charging Max Charging Current Battery Voltage Range 40Vdc-60Vdc ± 0.6Vdc(Under voltage Warning/Shutdown Voltage/Over voltage/Warning/Over voltage Recovery) Solar Input Maximum PV Open-circuit Voltage PV Working Voltage Range 500VDC MPPT Voltage Range 120-500VDC MPPT Voltage Range 120-450VDC Maximum PV Input Current 18A Maximum PV Input Power 5200W Maximum PV Charging Current 80A AC Input (On-grid) Mains Maximum Charging Current 60A Rated Input Voltage Range UPS Mains Mode: (170VAC-280VAC)±2% APL Generator Mode: (90VAC-280VAC)±2% Frequency 50Hz/60Hz (Automatic Detection) Mains Charging Efficiency Sold (Automatic Detection) Maximum Bypass Overload Current 40A AC Output (On-grid) Output Voltage Waveform Pure Sine Wave Rated Output (On-grid) Rated Output Power (VA) Rated Output Power (VA) Rated Output Power (VA) Rated Output Power (VA) Gon-load Motor Capacity 4HP Output Frequency Range(Hz) Maximum Efficiency Sold Sold-30-3450-04420.3Hz Maximum Efficiency Sold Sold-30-3450.3Hz Maximum Efficiency Sold Sold-30-3450.3Hz Sold Sold-30-31-36-	Battery Input					
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Solar Input	Hybrid Charging Max Charging Current	80A				
Solar Input Maximum PV Open-circuit Voltage 500VDC PV Working Voltage Range 120-500VDC MPPT Voltage Range 120-450VDC Maximum PV Input Current 18A Maximum PV Input Power 5200W Maximum PV Charging Current 80A AC Input (On-grid) 60A Rated Input Voltage 220/230VAC Input Voltage Range UPS Mains Mode: (170VAC-280VAC)±2% APL Generator Mode: (90VAC-280VAC)±2% Frequency 50Hz/ 60Hz (Automatic Detection) Mains Charging Efficiency >95% Switch Time (bypass and inverter) 10ms(Typical Value) Maximum Bypass Overload Current 40A AC Output (On-grid) 40A AC Output Voltage Waveform Pure Sine Wave Rated Output Voltage (VAC) 230VAC (200/208/220/240VAC) Rated Output Power (VA) 5000 (4350/4500/4800/5000) Rated Output Power (W) 5000 (4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz±0.3Hz±0.3Hz±0.3Hz Maximum Efficiency	Battery Voltage Range					
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AC Input (On-grid) Mains Maximum Charging Current Rated Input Voltage 1220/230VAC Input Voltage Range 1295 Mains Mode: (170VAC~280VAC)±2% APL Generator Mode: (90VAC~280VAC)±2% Frequency Sollar (Automatic Detection) Mains Charging Efficiency Sys% Switch Time (bypass and inverter) Maximum Bypass Overload Current 40A AC Output (On-grid) Output Voltage Waveform Pure Sine Wave Rated Output Voltage (VAC) Rated Output Power (VA) Sollar (200/208/220/240VAC) Rated Output Power (VA) Sollar (350/4500/4800/5000) Rated Output Power(W) Folia (4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) Maximum Efficiency >90%	Maximum PV Input Power	5200W				
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Rated Input Voltage 220/230VAC Input Voltage Range UPS Mains Mode: (170VAC~280VAC)±2% APL Generator Mode: (90VAC-280VAC)±2% Frequency 50Hz/ 60Hz (Automatic Detection) Mains Charging Efficiency >95% Switch Time (bypass and inverter) 10ms(Typical Value) Maximum Bypass Overload Current 40A AC Output (On-grid) Output Voltage Waveform Pure Sine Wave Rated Output Voltage (VAC) 230VAC (200/208/220/240VAC) Rated Output Power (VA) 5000(4350/4500/4800/5000) Rated Output Power(W) 5000(4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	AC Input (On-grid)					
Input Voltage Range UPS Mains Mode: (170VAC~280VAC)±2% APL Generator Mode: (90VAC-280VAC)±2% Frequency 50Hz/ 60Hz (Automatic Detection) Mains Charging Efficiency >95% Switch Time (bypass and inverter) 10ms(Typical Value) Maximum Bypass Overload Current 40A AC Output (On-grid) Output Voltage Waveform Pure Sine Wave Rated Output Voltage (VAC) Rated Output Power (VA) Food (4350/4500/4800/5000) Rated Output Power(W) 5000(4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) Maximum Efficiency 50Hz±0.3Hz/60Hz±0.3Hz >90%	Mains Maximum Charging Current	60A				
Frequency 50Hz/ 60Hz (Automatic Detection) Mains Charging Efficiency >95% Switch Time (bypass and inverter) 10ms(Typical Value) Maximum Bypass Overload Current 40A AC Output (On-grid) Output Voltage Waveform Pure Sine Wave Rated Output Voltage (VAC) 230VAC (200/208/220/240VAC) Rated Output Power (VA) 5000 (4350/4500/4800/5000) Rated Output Power(W) 5000 (4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	Rated Input Voltage	220/230VAC				
Mains Charging Efficiency >95% Switch Time (bypass and inverter) 10ms(Typical Value) Maximum Bypass Overload Current 40A AC Output (On-grid) Output Voltage Waveform Pure Sine Wave Rated Output Voltage (VAC) 230VAC (200/208/220/240VAC) Rated Output Power (VA) 5000(4350/4500/4800/5000) Rated Output Power(W) 5000(4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	Input Voltage Range	UPS Mains Mode: (170VAC~280VAC)±2% APL Generator Mode: (90VAC-280VAC)±2%				
Switch Time (bypass and inverter) 10ms(Typical Value) Maximum Bypass Overload Current 40A AC Output (On-grid) Pure Sine Wave Rated Output Voltage (VAC) 230VAC (200/208/220/240VAC) Rated Output Power (VA) 5000(4350/4500/4800/5000) Rated Output Power(W) 5000(4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	Frequency	50Hz/ 60Hz (Automatic Detection)				
Maximum Bypass Overload Current 40A AC Output (On-grid) Pure Sine Wave Rated Output Voltage (VAC) 230VAC (200/208/220/240VAC) Rated Output Power (VA) 5000(4350/4500/4800/5000) Rated Output Power(W) 5000(4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	Mains Charging Efficiency	>95%				
AC Output (On-grid) Output Voltage Waveform Pure Sine Wave Rated Output Voltage (VAC) 230VAC (200/208/220/240VAC) Rated Output Power (VA) 5000(4350/4500/4800/5000) Rated Output Power(W) 5000(4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	Switch Time (bypass and inverter)	10ms(Typical Value)				
Output Voltage Waveform Pure Sine Wave Rated Output Voltage (VAC) 230VAC (200/208/220/240VAC) Rated Output Power (VA) 5000(4350/4500/4800/5000) Rated Output Power(W) 5000(4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	Maximum Bypass Overload Current			40A		
Rated Output Voltage (VAC) 230VAC (200/208/220/240VAC) Rated Output Power (VA) 5000(4350/4500/4800/5000) Rated Output Power(W) 5000(4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	AC Output (On-grid)					
Rated Output Power (VA) 5000(4350/4500/4800/5000) Rated Output Power(W) 5000(4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	Output Voltage Waveform	Pure Sine Wave				
Rated Output Power(W) 5000(4350/4500/4800/5000) Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	Rated Output Voltage (VAC)	230VAC (200/208/220/240VAC)				
Peak Power 10000VA On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	Rated Output Power (VA)	5000(4350/4500/4800/5000)				
On-load Motor Capacity 4HP Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	Rated Output Power(W)	5000(4350/4500/4800/5000)				
Output Frequency Range(Hz) 50Hz±0.3Hz/60Hz±0.3Hz Maximum Efficiency >90%	Peak Power	10000VA				
Maximum Efficiency >90%	On-load Motor Capacity	4HP				
	Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz				
No-load Loss Non Energy-saving Mode: <50W Energy-saving Mode: <25W (Manual Setup)	Maximum Efficiency			>90%		
	No-load Loss	Non Ene	ergy-saving Mode: <50	OW Energy-saving M	ode: <25W (Manual	Setup)

Introduction

This power Stacked mode lifepo4 lithium battery belongs to one of the series of household energy storage products that are independently designed and developed. It has long cycle life, high safety standard BMS software protection and strong housing, exquisite looks, and easy installation, etc. It is widely used in energy storage system with off-grid inverters, on-off grid inverters and hybrid inverters.

Feature

- >6000 times deep cycle charge and discharge
- Protection functions of BMS ensure the safety and long service life
- Modular design, light weight, small size, easy installation

Application



Communication base station energy storage



Solar panels



Home energy storage



Industrial energy storage



Backup power



Mountain communication base station



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