







Z Series(LV)



Stacked Lithium Battery Module

Product Feature

- 
  - Strong Expansibility
  - Support 16 modules in parallel
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  - Adaptable to Harsh Environment
  - Adapt to wide range of temperature and humidity
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  - Easy to Install and Use
  - Modular design, simple operation
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  - Meticulous Care
  - Each module can be independently managed and operated to ensure the safety of the system
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  - Long Life Span
  - 10 years design life, more than 6000cycles
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  - Multi-scenario application
  - Household use, small industrial and commercial applications

MODEL	Z-51100-LV	Z-51200-LV	Z-51300-LV	Z-51400-LV	Z-51500-LV	Z-51600-LV	
Battery type		LiFePO4					
Electrical Parameters (25°C)	Rated Voltage	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V
	Rated Capacity (C <sub>5</sub> )	100Ah@25°C	200Ah@25°C	300Ah@25°C	400Ah@25°C	500Ah@25°C	600Ah@25°C
	Energy	5.12KWh	10.24KWh	15.36KWh	20.48KWh	25.60KWh	30.72KWh
	Months Self Discharge	<3%	<3%	<3%	<3%	<3%	<3%
	Charge Efficiency	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C
	Discharge Efficiency	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C
Terminal Diameter		M8	M8	M8	M8	M8	M8
Internal resistance (Fully charged, 25°C)		≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ
Cycle life		6000 cycles @ 0.5C 80%D.O.D					
Capacity affected by temperature	40°C	101%					
	25°C	100%					
	0°C	90%					
	-10°C	75%					
Nominal operating temperature		25°C± 3°C (77°F± 5°F)					
Operating temperature range	Discharge	- 20°C~ 60°C (-4°F ~ 140°F)					
	Charge	0°C~ 45°C (32°F ~ 113°F)					
	Storage	0°C~ 40°C (32°F ~ 104°F)					
Protection Grade		IP50					
Charge Voltage		56.8V					
Standard Charge Mode (25°C±2°C, <75%RH)		0.2C A Constant Current to 57V, then Constant Voltage 57V , until the current drops to 0.02CA, before use, rest 30 minutes					
Charge Current		50A	100A	150A	200A	250A	300A
Continuous Discharge Current		100A	160A	240A	320A	400A	480A
Maximum Pulse Current		150A (<1S)	320A (<1S)	480A (<1S)	640A (<1S)	800A (<1S)	960A (<1S)
Discharge Cut Off Voltage		44.8V					
Protocol (optional)		RS232/RS485/CAN/BLUETOOTH/WIFI					
SOC (optional)		Screen/LED/PC Software					
Application connection		1 string 1 parallel					
Cells(per module)		EVE 3.2V100Ah-16S1P					
Safety & Certification		CE/IEC/UL/UN38.3/MSDS					
Size	Length				640±2mm (23.84inch)		
	Width				400±2mm (14.9inch)		
	Height				160±2mm (5.96inch)		
	Total height				314±2mm (11.69inch)		
Approx. weight					52kg (114.64lbs)±2kg		

Notes

- \*1 Test conditions: Based on the factory date, charge and discharge rate at 0.2c at 100% discharge depth (DoD) and 25 ℃ .
- \*2 The weight of the battery module is based on the actual product, with a tolerance of ± 3% allowed.
- \*3 The installation of battery packs is related to product quality assurance, safe and stable operation, Please follow the requirements. ofthe user manual for standardized installation, use, and routine maintenance.
- \*4 Compatible with mainstream brand inverters in the market.