

GENIUS Battery

Battery System Designed For PV Household Application



Plug & Play



Safety




Modular



Long Lifespan

Physical

Model	Genius Battery
Battery Type	LiFePO ₄ (LFP)
Battery Manufacturer	
System Weight	65 kg
Dimension (W x D x H)	600 x 250 x 600 mm
Protection Level	IP21/IP65(Optional)

Electrical

Installed Capacity	5.7 kWh
Usable Capacity	5.2 kWh
DOD	90%
Nominal Voltage	51.2 V
Operation Voltage Range	48 ~ 57.6 V
Internal Resistance	≤30 mΩ
Cycle Life	≥6000

BMS

Power Consumption	<2 W (Work) <100 mW (Sleep)
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature.
SOC	Intelligent algorithm
Communication	CAN and RS485 compatible

System Configuration

Module Connect	1-6 Parallels
Capacity Range	5.7/11.5/17.2/22.9/28.7/34.4 kWh

Operation

Max. Charge Current	56 A (0.5C)
Max. Discharge Current	56 A (0.5C)
Operating Temperature Range	* -10°C ~ 50°C
Transport Or Storage Temperature Range	-25°C ~ 45°C
Humidity	15 ~ 85%

Warranty

Product Warranty	5 Years
Performance Warranty	10 Years

* When the temperature is below zero the battery are not allowed to charge.
And derating power output when the temperature is above 40°C.



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