



AVOLTM
The genius of electricity

Genius Series

Energy Storage System
Battery Specifications



For use with the AVOL Genius IA3 and IA5 Inverters

Battery Specifications	Genius BA5		
Physical	Operation		
Battery type	LFP (LiFePO4)	Max. Charge/Discharge Current	50A/80A
System Weight	54KG	Rated DC power	4096W
Dimension (W x D x H)	540*240*530	Max. Charge/Discharge Power	2825W/4096W
IP Protection	IP65	Operating Temperature Range	0 to 50°C charging -10 to 50°C discharging
Warranty	5 Years	Humidity	0~95% (No condensation)
Manufacturer Country	China	BMS	
Electrical		Modules Connection	1*
Energy Capacity	5.12kWh	Capacity	100Ah
Usable Capacity	4.6kWh	Power Consumption	<2W
Depth of Discharge (DoD)	90%	Communication	CAN & RS485
Nominal Voltage	51.2V	Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
DC Circuit Breaker	125A	Certificate	
Operating Voltage Range	44.8-56.5V	Safety(Cell)	Pack: IEC/EN 62619;UN38.3 Cell: IEC/EN 62619;UN38.3;UL1973
Internal Resistance	<20mΩ		
Cycle Life	10000 cycles		

*Maximum 4 battery packs in parallel.

Battery Specifications		Genius BA10	
Physical		Operation	
Battery type	LFP (LiFePO4)	Max. Charge/Discharge Current	100A/100A
System Weight	108KG	Rated DC power	4096W
Dimension (W x D x H)	540*240*1020	Max. Charge/Discharge Power	5650W/5120W
IP Protection	IP65	Operating Temperature Range	0 to 50°C charging -10 to 50°C discharging
Warranty	5 Years	Humidity	0~95% (No condensation)
Manufacturer Country	China	BMS	
Electrical		Modules Connection	2
Energy Capacity	10.24kWh	Capacity	200Ah
Usable Capacity	9.2kWh	Power Consumption	<2W
Depth of Discharge (DoD)	90%	Communication	CAN & RS485
Nominal Voltage	51.2V	Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
DC Circuit Breaker	125A	Certificate	
Operating Voltage Range	44.8-56.5V	Safety(Cell)	Pack: IEC/EN 62619;UN38.3 Cell: IEC/EN 62619;UN38.3;UL1973
Internal Resistance	<20mΩ		
Cycle Life	10000 cycles		

Battery Specifications		Genius BA15	
Physical		Operation	
Battery type	LFP (LiFePO4)	Max. Charge/Discharge Current	100A/100A
System Weight	108KG + 54KG	Rated DC power	4096W
Dimension (W x D x H)	540*240*1020 + 540*240*530	Max. Charge/Discharge Power	5650W/5120W
IP Protection	IP65	Operating Temperature Range	0 to 50°C charging -10 to 50°C discharging
Warranty	5 Years	Humidity	0~95% (No condensation)
Manufacturer Country	China	BMS	
Electrical		Modules Connection	3
Energy Capacity	15.36kWh	Capacity	300Ah
Usable Capacity	13.8kWh	Power Consumption	<2W
Depth of Discharge (DoD)	90%	Communication	CAN & RS485
Nominal Voltage	51.2V	Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
DC Circuit Breaker	125A	Certificate	
Operating Voltage Range	44.8-56.5V	Safety(Cell)	Pack: IEC/EN 62619;UN38.3 Cell: IEC/EN 62619;UN38.3;UL1973
Internal Resistance	<20mΩ		
Cycle Life	10000 cycles		

Battery Specifications		Genius BA20	
Physical		Operation	
Battery type	LFP (LiFePO4)	Max. Charge/Discharge Current	100A/100A
System Weight	108KG + 108KG	Rated DC power	4096W
Dimension (W x D x H)	540*240*1020 + 540*240*1020	Max. Charge/Discharge Power	5650W/5120W
IP Protection	IP65	Operating Temperature Range	0 to 50°C charging -10 to 50°C discharging
Warranty	5 Years	Humidity	0~95% (No condensation)
Manufacturer Country	China	BMS	
Electrical		Modules Connection	4
Energy Capacity	20.48kWh	Capacity	400Ah
Usable Capacity	18.4kWh	Power Consumption	<2W
Depth of Discharge (DoD)	90%	Communication	CAN & RS485
Nominal Voltage	51.2V	Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
DC Circuit Breaker	125A	Certificate	
Operating Voltage Range	44.8-56.5V	Safety(Cell)	Pack: IEC/EN 62619;UN38.3 Cell: IEC/EN 62619;UN38.3;UL1973
Internal Resistance	<20mΩ		
Cycle Life	10000 cycles		