



# AVOL™

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		
<b>Physical</b>	<b>Operation</b>		
Battery type	LFP (LiFePO4)	Max. Charge/Discharge Current	50A/80A
System Weight	54KG	Rated DC power	4096W
Dimension (W x D x H)	540*490*240	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	<b>BMS</b>	
<b>Electrical</b>		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	<b>Certificate</b>	
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	
<b>Physical</b>		<b>Operation</b>	
Battery type	LFP (LiFePO4)	Max. Charge/Discharge Current	100A/100A
System Weight	108KG	Rated DC power	4096W
Dimension (W x D x H)	540*980*240	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	<b>BMS</b>	
<b>Electrical</b>		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	<b>Certificate</b>	
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	
<b>Physical</b>		<b>Operation</b>	
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*980*240 + 540*490*240	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	<b>BMS</b>	
<b>Electrical</b>		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	<b>Certificate</b>	
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	
<b>Physical</b>		<b>Operation</b>	
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*980*240 + 540*980*240	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	<b>BMS</b>	
<b>Electrical</b>		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	<b>Certificate</b>	
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		