

LG HBP Battery Series

BLGRESU10HP (9.6kWh Battery Pack Product Specification)

BLGRESU16HP (16kWh Battery Pack Product Specification)

Electrical Characteristics

Model	BLGRESU10HP	BLGRESU16HP
Total Energy	9.87kWh	16.45kWh
Usable Energy ¹	9.6Wh	16kWh
Voltage Range	Charge	420-450V _{DC}
	Discharge	350-410V _{DC}
Nominal Voltage	Charge	435V _{DC}
	Discharge	380V _{DC}
Max. Charge/Discharge Current	14.3A @350V	20A @350V
Max Charge/Discharge Power	5kW	7kW
Peak Power (Only discharging) ²	7kW for 10 sec.	11kW for 10 sec.
Peak Current (Only discharging)	20A for 10 sec.	32.8A for 10 sec
Communication Interface	RS485	
DC Protection	In-built Circuit Breaker, Fuse, DCDC converter	
Connection Method	Spring Type Connector	
User Interface	LEDs for Normal and Fault operation	
Protection Features	Over Voltage / Over Current / Short Circuit / Reverse Polarity	
Fault Current	1.106kA for 0.97ms	1.616kA for 0.44ms
Scalability (Total Energy, Max. Charge/Discharge Power)	Max. 2 Batteries in Parallel: (19.2kWh, 10kW Power)	Max. 2 Batteries in Parallel: (32kWh, 14kW Power)

Certification

Model	BLGRESU10HP	BLGRESU16HP
Safety	Cell	UL1642
	Battery Pack	UL1973 / CE / RCM / IEC62619
Emissions	FCC	
Hazardous Materials Classification	Class 9	
Transportation	UN38.3 (UNDOT)	
Ingress Rating	IP55	
Warranty ³	10 years	

Mechanical Characteristics

Model	BLGRESU10HP	BLGRESU16HP
Dimensions	Width	504 mm
	Height	817 mm
	Depth	295 mm
Weight	111 kg	159 kg

- Test Conditions – Temperature 77°F (25°C), at the beginning of life
- Usable Energy is measured under specific condition from LGE (0.3CPCV/0.3CP) / LGE (0.3CCCV/0.3CC)
- Product specification may change without notice

1. DOD 97.5%. DC/DC converter one way efficiency 97.5%. Ambient 77°F (25°C)

2. Peak current excludes repeated short duration (Less than 10 sec. of current pattern)

3. 5 years default warranty, additional 5 years is only available to customers who register and connect their Battery in LGES RESU Monitor website (<http://resumonitor.lgensol.com>) within 6 months of the date of purchase and maintain the connection and agree to remote firmware updates for the duration of the product's life.

Operating Conditions

Model	BLGRESU10HP	BLGRESU16HP
Installation Location	Indoor/Outdoor, Floor standing, Wall-mounted	Indoor/Outdoor, Floor standing only
Operating Temperature	Charge	14 ~ 122°F (-10 ~ 50°C)
	Discharge	-4 ~ 122°F (-20 ~ 50°C)
Operating Temperature (Recommended)	59 ~ 86°F (15 ~ 30°C)	
Storage Temperature (At shipping state)	-22 to 140°F (-30 to 60°C), acceptable for 7 days in total -4 to 113°F (-20 to 45°C), acceptable for the first 6 months -4 to 86°F (-20 to 30°C), acceptable for 7th month~12th month	
Humidity	5%-95%	
Altitude	Max. 6,562ft (2,000m)	
Cooling Strategy	Natural Convection	

