

9.8kWh Battery Pack Specification





Product Specification (1/2)

2022.July.

RESU10

Electrical Characteristics	
Total Energy Capacity	9.8 kWh
Usable Energy Capacity ¹⁾	8.8 kWh
Battery Capacity	189 Ah
Voltage Range	42.0 to 58.8 V _{DC}
Nominal Voltage	51.8 V _{DC}
Max. Charge/Discharge Current	119A
Peak Current ²⁾	166.7A for 3 sec.
Short Circuit Current ³⁾	2.853kA
Max. Charge/Discharge Power ⁴⁾	5.0kW
Peak Power ²⁾	7.0kW for 3 sec.
Battery Pack Round-Trip Efficiency	>95% (under specific condition)
Communication Interface	CAN 2.0B
DC Disconnect	Circuit Breaker, Contactor, Fuse
Battery Chemistry	Lithium Ion

Operating Conditions

Installation Location	Indoor / Outdoor (Stand / Wall-Mounted)
Ingress Rating	IP55
Operating Temperature	-10 to 50°C
Operating Temperature (Recommended)	15 to 30°C
Storage Temperature	-30 to 60°C : ~7 days -20 to 45°C : ~ 6 months
Humidity	5% to 95%
Altitude	Max. 2,000m
Cooling Strategy	Natural Convection

Certification

Safety	Cell	UL1642
	Battery Pack	CE / RCM / FCC / TUV (IEC 62619) / UL1973
Emissions		IEC61000-6-1, IEC61000-6-3
Hazardous Materials Classifica	ation	Class 9
Transportation		UN38.3
X Test Conditions - Temperature		2000//0.200

% Total Energy is measured under specific condition from LGC(0.3CCCV/0.3CC)

1) Value for Battery Cell Only (Depth of Discharge 90%). Actual usable energy at the AC output may vary by condition, such as the inverter efficiency and temperature.

2) Peak Current excludes repeated short duration (less than 3 sec.) of current pattern.

3) Short circuit current is measured at installer-accessible terminal

4) LGES recommends 0.3CP for maximum battery lifetime. Maximum power will vary due to temperature and SOC



Product Specification (2/2)

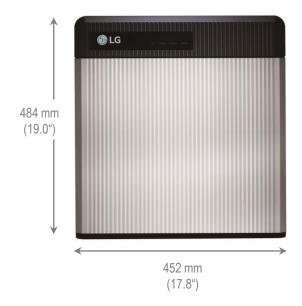
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Features

RESU10 battery pack designed for photovoltaic systems is easily adaptable energy storage solution. With RESU Plus, RESU3.3/6.5/10 can be "cross-connected" with each other.

※ RESU Plus is an expansion kit specially designed for 48V models. Number of expandable battery units : up to 2EA

- Easy and Flexible installation
 - : Easy to wall mount or install on floor
 - : Wide range of inverters available
- Proven Safety and 10 year warranty
- Compact size and space saving





227 mm (8.94")

Mechanical Characteristics		
	Width	452 mm (17.8")
Dimensions	Height	484 mm (19.0")
	Depth	227 mm (8.9")
Weight		75 kg (165.3lbs)



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