

RESU6.5

6.5kWh Battery Pack Specification

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Electrical Characteristics

Total Energy Capacity	6.5 kWh
Usable Energy Capacity ¹⁾	5.9 kWh
Battery Capacity	126 Ah
Voltage Range	42.0 to 58.8 V _{DC}
Nominal Voltage	51.8 V _{DC}
Max. Charge/Discharge Current	100A
Peak Current ²⁾	109.5A for 3 sec.
Max. Charge/Discharge Power ³⁾	4.2kW
Peak Power ²⁾	4.6kW for 3 sec.
Battery Pack Round-Trip Efficiency	>95% (under specific condition)
Communication Interface	CAN 2.0B
Short Circuit Current ⁴⁾	2.28 kA
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 Classification	Class 9	
Transportation	UN38.3	

※ Test Conditions - Temperature 25°C, at the beginning of life

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

4) Short circuit current is measured at installer-accessible terminal.

Features

RESU6.5 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



Mechanical Characteristics

Dimensions	Width	452 mm (17.8")
	Height	656 mm (25.8")
	Depth	120 mm (4.7")
Weight		52 kg (114.6lbs)
Country of Manufacture	Cell	South Korea, China
	Pack	South Korea



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