RESU6.5

6.5kWh Battery Pack Specification

LG Energy Solution

2021.May

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Product Specification (1/2)

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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.

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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)



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