# R=5U6.5

6.5kWh Battery Pack Specification





## **Product Specification (1/2)**

2023.Aug

#### **RESU6.5**

Electrical Characteristics	
Total Energy Capacity	6.5 kWh
Usable Energy Capacity <sup>1)</sup>	5.9 kWh
Battery Capacity	126 Ah
Voltage Range	42.0 to 58.8 V $_{\text{DC}}$
Nominal Voltage	51.8 V <sub>DC</sub>
Max. Charge/Discharge Current	100A
Peak Current <sup>2)</sup>	109.5A for 3 sec.
Max. Charge/Discharge Power <sup>3)</sup>	4.2kW
Peak Power <sup>2)</sup>	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

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

<sup>※</sup> Total Energy is measured under specific condition from LGC(0.3CCCV/0.3CC)

<sup>1)</sup> 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.

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

<sup>3)</sup> LGES recommends 0.3CP for maximum battery lifetime. Maximum power will vary due to temperature and SOC.

<sup>4)</sup> Short circuit current is measured at installer-accessible terminal.



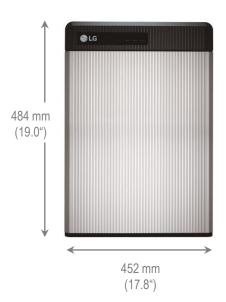
## **Product Specification (2/2)**

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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





<b>Mechanical Characteristics</b>			
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	

