

# RESU 10

9.8kWh Battery Pack Specification

**RESU10**
**Electrical Characteristics**

Total Energy Capacity	9.8 kWh
Usable Energy Capacity <sup>1)</sup>	8.8 kWh
Battery Capacity	189 Ah
Voltage Range	42.0 to 58.8 V <sub>DC</sub>
Nominal Voltage	51.8 V <sub>DC</sub>
Max. Charge/Discharge Current	119A
Peak Current <sup>2)</sup>	166.7A for 3 sec.
Max. Charge/Discharge Power <sup>3)</sup>	5.0kW
Peak Power <sup>2)</sup>	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

**Operating Conditions**

Installation Location	Indoor / Outdoor (Stand / Wall-Mounted)
Operating Temperature	-10 to 45°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	
Ingress Rating	IP55	

※ 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) LG ES recommends 0.3CP for maximum battery lifetime. Values temperature and SOC - dependent.

**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


**Mechanical Characteristics**

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



**LG Energy Solution**

ESS Battery Division