# RESU10

9.8kWh Battery Pack Specification





## Product Specification (1/2)

2020.Feb.

#### 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 $_{DC}$
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 Battery Pack	UL1642 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

<sup>\*</sup> Test Conditions - Temperature 25°C, at the beginning of life

 $<sup>\</sup>fint % Total Energy is measured under specific condition from LGC(0.3CCCV/0.3CC)$ 

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



## Product Specification (2/2)

2020.Feb.

#### **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)



