RESU13

13.0kWh Battery Pack Specification





Product Specification (1/2)

2020.Feb.

RESU13

Electrical Characteristics	
Total Energy Capacity	13.0 kWh
Usable Energy Capacity ¹⁾	12.4 kWh
Battery Capacity	252 Ah
Voltage Range	42.0 to 58.8 V_{DC}
Nominal Voltage	51.8 V _{DC}
Max. Charge/Discharge Current	119A
Peak Current ²⁾	166.7A for 3 sec.
Max. Charge/Discharge Power ³⁾	5.0kW
Peak Power ²⁾	7.0kW for 3 sec.
Peak Power for backup mode	11.0kW 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 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 / TUV (IEC 62619) / FCC
EMC		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 95%). 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.



Product Specification (2/2)

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Features

RESU13 battery pack designed for photovoltaic systems is easily adaptable energy storage solution. With RESU Plus, RESU13 can be connected with the same model.

- ※ RESU Plus is an expansion kit specially designed for 48V models. Number of expandable battery units: up to 2EA
 - ☐ Backup functionality supported
 - ☐ Powerful Performance : World Best Energy Density
 - ☐ Easy and Flexible installation
 - : Easy wall-mounted or floor-standing installation enable
 - : Diverse Matched Inverters Available
 - ☐ BMS firmware can be updated easily by using SD Card



Mechanical Characteristics Width 452 mm (17.8") Dimensions Height 626 mm (24.7") Depth 227 mm (8.9") Weight 98.5 kg (217.2lbs)



