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ENERGY
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SYSTEMS

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RESU



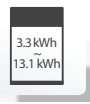
Compact Size & Easy Installation

The compact and lightweight nature of the RESU allows easier and faster installation both indoor and outdoor.



Proven Safety

The safety of LG Chem's lithium-ion battery is proven in the automotive and ESS markets.



Diverse Product Options

The RESU series offers diverse product options ranging from 3.3kWh to 13.1kWh.



* The ees Award is one of the most prestigious awards presented annually at ees Europe, the largest exhibition for batteries and energy storage systems in Europe, with the purpose to pay tribute to pioneering products and solutions for energy storage system. www.lgesspartner.com

Product Specification (1/2)

2018.November

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	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).

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

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