

RESU

Data sheet for RESU12

RESU12
Electrical Characteristics

Total Energy Capacity	13.1 kWh
Usable Energy Capacity ¹⁾	11.7 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
Short Circuit Current ⁴⁾	3.209 kA
DC Disconnect	Circuit Breaker, Contactor, Fuse
Battery Chemistry	Lithium Ion

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 / IEC 62619 / FCC / UL1973
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/Usable Energy is measured under specific condition from LGES(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) LGES recommends 0.3CP for maximum battery lifetime. Maximum power will vary due to temperature and SOC.

4) Short circuit current is measured at installer-accessible terminal.

Features

RESU12 battery pack designed for photovoltaic systems is easily adaptable energy storage solution. With RESU Plus, RESU3.3/6.5/10 /12 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

- Emergency Power Back-up
- 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	626 mm (24.7")
	Depth	227 mm (8.9")
Weight		98.5 kg (217.2lbs)
Country of Manufacture	Cell	South Korea, China
	Pack	South Korea



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