

Data sheet for RESU12



🕒 LG Energy Solution

Product Specification (1/2)

2021.Apr

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 $_{\text{DC}}$
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

Safaty	Cell	UL1642
Safety	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 LGC(0.3CCCV/0.3CC)

3) LG Chem recommends 0.3CP for maximum battery lifetime. Maximum power will vary due to temperature and SOC

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).



Product Specification (2/2)

2021.Apr

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



Tower1, 108, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea. 07335 TEL : (82) 2-3773-1114 FAX : (82) 2-3773-7005 <u>http://www.lghomebattery.com</u> <u>http://www.lgensol.com</u>