

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 |
| 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 / 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)

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

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) |



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