

RESU 10

9.8kWh Battery Pack Specification

RESU10

Electrical Characteristics

| | |
|---|----------------------------------|
| Total Energy Capacity | 9.8 kWh |
| Usable Energy Capacity ¹⁾ | 8.8 kWh |
| Battery Capacity | 189 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. |
| Short Circuit Current ³⁾ | 2.853kA |
| Max. Charge/Discharge Power ⁴⁾ | 5.0kW |
| Peak Power ²⁾ | 7.0kW for 3 sec. |
| Battery Pack Round-Trip Efficiency | >95% (under specific condition) |
| Communication Interface | CAN 2.0B |
| DC Disconnect | Circuit Breaker, Contactor, Fuse |
| Battery Chemistry | Lithium Ion |

Operating Conditions

| | |
|-------------------------------------|---|
| Installation Location | Indoor / Outdoor (Stand / Wall-Mounted) |
| Ingress Rating | IP55 |
| 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 / FCC / TUV (IEC 62619) / UL1973 |
| Emissions | IEC61000-6-1, IEC61000-6-3 | |
| Hazardous Materials Classification | Class 9 | |
| Transportation | UN38.3 | |

※ 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 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) Short circuit current is measured at installer-accessible terminal

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

Features

RESU10 battery pack designed for photovoltaic systems is easily adaptable energy storage solution. With RESU Plus, RESU3.3/6.5/10 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

- 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 | 484 mm (19.0") |
| | Depth | 227 mm (8.9") |
| Weight | | 75 kg (165.3lbs) |



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