# R=5U10

9.8kWh Battery Pack Specification





# **Product Specification (1/2)**

2023.Aug

### RESU<sub>10</sub>

| Electrical Characteristics                |                                  |
|---|----------------------------------|
| Total Energy Capacity                     | 9.8 kWh                          |
| Usable Energy Capacity <sup>1)</sup>      | 8.8 kWh                          |
| Battery Capacity                          | 189 Ah                           |
| Voltage Range                             | 42.0 to 58.8 V $_{\text{DC}}$    |
| Nominal Voltage                           | 51.8 V <sub>DC</sub>             |
| Max. Charge/Discharge Current             | 119A                             |
| Peak Current <sup>2)</sup>                | 166.7A for 3 sec.                |
| Short Circuit Current <sup>3)</sup>       | 2.853kA                          |
| Max. Charge/Discharge Power <sup>4)</sup> | 5.0kW                            |
| Peak Power <sup>2)</sup>                  | 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<br>-20 to 45°C : ~ 6 months |
| Humidity                            | 5% to 95%   |
| Altitude                            | Max. 2,000m                                       |
| Cooling Strategy                    | Natural Convection                                |

#### Certification

| Cofoty                             | Cell         | UL1642                                    |
|------------------------------------|--------------|---|
| Safety                             | Battery Pack | CE / RCM / FCC / TUV (IEC 62619) / UL1973 |
| Emissions                          |              | IEC61000-6-1, IEC61000-6-3                |
| Hazardous Materials Classification |              | Class 9                                   |
| Transportation                     |              | UN38.3                                    |

- X Test Conditions Temperature 25°C, at the beginning of life
- X Total Energy is measured under specific condition from LGC(0.3CCCV/0.3CC)

- 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

<sup>1)</sup> 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.



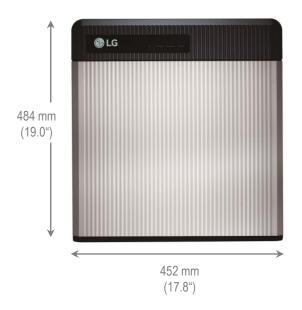
# **Product Specification (2/2)**

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#### **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)   |  |
| Country of Manufacture     | Cell   | South Korea, China |  |
|                            | Pack   | South Korea        |  |

