

# RESU6.5

Data sheet for RESU6.5

## RESU6.5

### Electrical Characteristics

|   |                                  |
|---|----------------------------------|
| Total Energy Capacity                     | 6.5 kWh                          |
| Usable Energy Capacity <sup>1)</sup>      | 5.9 kWh                          |
| Battery Capacity                          | 126 Ah                           |
| Voltage Range                             | 42.0 to 58.8 V <sub>DC</sub>     |
| Nominal Voltage                           | 51.8 V <sub>DC</sub>             |
| Max. Charge/Discharge Current             | 100A                             |
| Peak Current <sup>2)</sup>                | 109.5A for 3 sec.                |
| Max. Charge/Discharge Power <sup>3)</sup> | 4.2kW                            |
| Peak Power <sup>2)</sup>                  | 4.6kW 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 45°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

|                                    |                            |   |
|------------------------------------|----------------------------|---|
| 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                     |   |
| Ingress Rating                     | IP55                       |   |

※ 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) LG Chem recommends 2.2kW for maximum battery lifetime.

## Features

RESU6.5 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 | 656 mm (25.8")   |
|            | Depth  | 120 mm ( 4.7")   |
| Weight     |        | 52 kg (114.6lbs) |

