

# RESU 6.5

6.5kWh Battery Pack Specification

# INTRODUCTION

## 1. Features

RESU 6.5 battery pack designed for photovoltaic systems is easily adaptable energy storage solution. With RESU Plus, all 48V models can be “cross-connected” with one other 48V unit of any capacity.

※ RESU Plus is an expansion kit specially designed for 48V models.

Number of expandable battery units : up to 2

- ❑ Compact and light weight
- ❑ Powerful Performance : World Best Energy Density
- ❑ Easy and Flexible installation
  - : Easy wall-mounted or floor-standing installation enable
  - : Diverse Matched Inverters Available
- ❑ BMS firmware can be updated easily by using SD Card

## 2. Outline Dimensions



Physical Characteristics		
Model P/N		R48126P3S
Width	mm (in)	452 (17.8)
Depth	mm (in)	120 (4.7)
Height	mm (in)	656 (25.8)
Weight	Kg (lb)	52 (114.6)

# TECHNICAL INFORMATION

## 3. Technical Data

Electrical Characteristics	
Total Energy Capacity	6.5 kWh
Usable Energy Capacity	5.9kWh
Battery Capacity	126 Ah
Voltage Range	42.0~58.8V <sub>DC</sub>
Nominal Voltage	51.8V <sub>DC</sub>
Max. Charge/Discharge Current	100A
Max. Charge/Discharge Power <sup>1)</sup>	4.2kW
Peak Power <sup>2)</sup>	4.6kW for 3 sec.
Peak Current	109.5 A 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(Wall-Mounted) / Outdoor
Operating Temperature	-10~45°C
Operating Temperature (Recommended)	15~30°C
Storage Temperature	-30~60°C
Humidity	5%~95%
Altitude	Max. 2,000m
Cooling Strategy	Natural Convection

Reliability & Certification		
Safety	Cell	UL1642
	Battery Pack	CE / RCM / FCC / TUV (IEC 62619) / UL1973
Hazardous Materials Classification		Class 9
Transportation		UN38.3 (UNDOT)
Ingress Rating		IP55

※ Test Conditions - Temperature 25°C

1) LG Chem recommends 2.2kW for maximum battery lifetime

2) Peak Current excludes repeated short duration (less than 3 sec.) of current pattern.

