

Innovation
for a Better Life



CHANGE YOUR ENERGY CHARGE YOUR LIFE



RESU



Compact Size & Easy Installation

The compact and lightweight nature of the RESU allows easier and faster installation both indoor and outdoor.



Diverse Product Options

The RESU series offers diverse product options ranging from 3.3kWh to 13.1kWh.



Proven Safety

The safety of LG Chem's lithium-ion battery is proven in the automotive and ESS markets.



* The ees Award is one of the most prestigious awards presented annually at ees Europe, the largest exhibition for batteries and energy storage systems in Europe, with the purpose to pay tribute to pioneering products and solutions for energy storage system.

www.lgesspartner.com

CHANGE YOUR ENERGY, CHARGE YOUR LIFE

48V



Models	RESU3.3	RESU6.5	RESU10	RESU13
Total Energy [kWh] ¹⁾	3.3	6.5	9.8	13.1
Usable Energy [kWh] ²⁾	2.9	5.9	8.8	12.4
Capacity [Ah]	63	126	189	252
Nominal Voltage [V]	51.8			
Voltage Range [V]	42.0-58.8			
Max Power [kW]	3.0	4.2	5.0	5.0
Peak Power [kW] (for 3 sec.)	3.3	4.6	7.0	7.0 11.0 (Backup Mode)
Dimension [W x H x D, mm]	452 x 403 x 120	452 x 656 x 120	452 x 484 x 227	452 x 626 x 227
Weight [kg]	31	52	75	99
Enclosure Protection Rating	IP55			
Communication	CAN2.0B			
Certificates	Cell	UL1642		
	Product	UL1973 / TUV (IEC 62619) / CE / FCC / RCM		TUV(IEC 62619)/CE/FCC/RCM

Compatible Inverter Brands : SMA, SolaX, Ingeteam, GoodWe, Sungrow, Victron Energy, Selectronic - More brands to be added

1) Total Energy is measured at the initial stage of battery life under the condition as follows : Temperature 25°C

2) Usable Energy is based on battery cell only

RESU PLUS



RESU Plus is an expansion kit specially designed for 48V models of the RESU series. With RESU Plus, all 48V models can be cross-connected with each other.

- Dimension : 216 x 156 x 121 (W x H x D, mm)
- Number of Expandable Battery Units : Up to 2EA
- IP55

400V



Models	RESU7H		RESU10H	
	Type-R	Type-C	Type-R	Type-C
Total Energy [kWh] ¹⁾	7.0		9.8	
Usable Energy [kWh] ²⁾	6.6		9.3	
Capacity [Ah]	63		63	
Voltage Range [V]	350-450	430-550	350-450	430-550
Max Power [kW]	3.5		5.0	
Peak Power [kW]	5.0 (for 5 sec.)	5.0 (for 10 sec.)	7.0 (for 10 sec.)	
Dimension [W x H x D, mm]	744 x 692 x 206	744 x 907 x 206	744 x 907 x 206	744 x 907 x 206
Weight [kg]	75	87	97	99.8
Enclosure Protection Rating	IP55			
Communication	RS485	CAN2.0B	RS485	CAN2.0B
Certificates	Cell	UL1642		
	Product	TUV (IEC 62619) / CE / FCC / RCM	TUV (IEC 62619) / CE / RCM	UL1973 / TUV (IEC 62619) / CE / FCC / RCM

Compatible Inverter Brands : SMA, SolarEdge, Fronius, Huawei - More brands to be added

1) Total Energy is measured at the initial stage of battery life under the condition as follows : Temperature 25°C

2) Usable Energy is based on battery cell only

RESU13

13.0kWh Battery Pack Specification



RESU13

Electrical Characteristics

Total Energy Capacity	13.0 kWh
Usable Energy Capacity ¹⁾	12.4 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	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 / TUV (IEC 62619) / FCC
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 Energy is measured under specific condition from LGC(0.3CCCV/0.3CC)

1) Value for Battery Cell Only (Depth of Discharge 95%). 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).

Features

RESU13 battery pack designed for photovoltaic systems is easily adaptable energy storage solution. With RESU Plus, RESU13 can be connected with the same model.

※ RESU Plus is an expansion kit specially designed for 48V models.
Number of expandable battery units : up to 2EA

- ❑ Backup functionality supported
- ❑ 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



Mechanical Characteristics

Dimensions	Width	452 mm (17.8")
	Height	626 mm (24.7")
	Depth	227 mm (8.9")
Weight		98.5 kg (217.2lbs)

