

Innovation
for a Better Life



CHANGE YOUR ENERGY CHARGE YOUR LIFE



RESU



Compact Size & Easy Installation

The compact and lightweight nature of the RESU is world-class. It is designed to allow easy wall-mounted or floor-standing installation for both indoor and outdoor applications. The inverter connections have also been simplified, reducing installation time and costs.



Powerful Performance

The new RESU series features industry-leading continuous power (4.2kW for RESU6.5) and DC round-trip efficiency (95%). LG Chem's L&S (Lamination & Stacking) technology provides durability ensuring 80% of capacity retention after 10 years.



Proven Safety

LG Chem places the highest priority on safety and utilizes the same technology for its ESS products that has a proven safety record in its automotive battery. All products are fully certified in relevant global standards.

RESU

Change Your Energy, Charge Your Life

48V



Models		RESU3.3	RESU6.5	RESU10
Total Energy [kWh]		3.3	6.5	9.8
Usable Energy [kWh]		2.9	5.9	8.8
Capacity [Ah]		63	126	189
Nominal Voltage [V]		51.8	51.8	51.8
Voltage Range [V]		42.0~58.8	42.0~58.8	42.0~58.8
Max Power [kW]		3.0	4.2	5.0
Peak Power [kW] (for 3 sec.)		3.3	4.6	7.0
Dimension [W x H x D, mm]		452 x 401 x 120	452 x 654 x 120	452 x 483 x 227
Weight [kg]		31	52	75
Enclosure Protection Rating		IP55		
Communication		CAN 2.0 B		
Certificates	Cell	UL1642		
	Product	CE / RCM / TUV (IEC 62619) / UL1973		

Compatible Inverter Brands : SMA, SolaX, Sungrow, Schneider, Ingeteam, GoodWe, Redback, Victron Energy (As of 3Q. 2016, More brands to be added)

RESU PLUS



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

- Dimension: 385 x 240 x 65 (W x H x D, mm)
- Number of Expandable Battery Units: Up to 2EA
- IP55

400V



Models		RESU7H	RESU10H	
Total Energy [kWh]		7.0	9.8	
Usable Energy [kWh]		6.6	9.3	
Capacity [Ah]		63	63	
Voltage Range [V]		350~450	350~450	385~550
Max Power [kW]		3.5	5.0	
Peak Power [kW] (for 10 sec.)		5.0	7.0	
Dimension [W x H x D, mm]		744 x 692 x 206	744 x 907 x 206	
Weight [kg]		76	97	99.8
Enclosure Protection Rating		IP55		
Communication		RS485	RS485	CAN 2.0 B
Certificates	Cell	UL 1642		
	Product	TUV (IEC 62619) / CE	TUV (IEC 62619) / UL1973 / CE	

Compatible Inverter Brands : SMA, SolarEdge (As of 3Q. 2016, More brands to be added)

LG Chem Lithium-ion Battery Limited Warranty

RESU7H / 10H Battery Storage System

This limited warranty (hereinafter "Warranty") specified below applies to LG Chem Lithium-ion batteries and the Accessory Components (hereinafter "Products") supplied by LG Chem, Ltd. (hereinafter "LGC or Seller") to End-user (hereinafter "Buyer") through Authorized Reseller

1. Purpose

The primary purpose of this Warranty is to clearly define the matters related to warranty policy of Products.

2. Warranty Condition

2-1. Warranty Period

The Performance Warranty for the Products is valid for 10 years from the initial (first) installation date (the "Term of Performance Warranty").

2-2. Limitation of Warranty scope

LGC's liability under this Warranty shall be limited to replacement, repair, refund and compensation. Replaced or repaired Products shall be warranted for the remainder of the original Term of Performance Warranty. In any event, the replacement shall not justify the renewal of the Term of Performance Warranty.

2-3. Exclusion of Warranty

Damage to the Products resulting from any of following activities is NOT covered by this Limited Warranty:

- Improper transportation, storage, installation or wiring by Buyer
- Modification, alteration, disassembly, repair or replace by someone other than a personnel certified by LGC
- Noncompliance with LGC's official installation manual
- External influences including unusual physical or electrical stress (power failure surges, inrush current, lightning, flood, fire, accidental breakage, etc.)
- Use of an incompatible inverter, rectifier or PCS.

2-4. Warranty Claim

Buyer shall contact installer directly for any warranty claims in order to avoid additional problems in the products.

Note. Products are unavailable to protect itself from the self discharge in condition of shut down mode.

3. Performance Warranty (Standard)

LGC warrants and represents that the Product retains at least 60% of Nominal Energy for the either 10 years after the date of the initial installation or for a minimum Energy Throughput as per the table below (whichever comes first) when the battery system is operated under a normal use followed by the specification and the manual provided by LGC.

The term "Nominal Energy" herein means the initially rated capacity of the Products as printed on the label of the Products. The precondition of the valid 10year Performance Warranty shall be as follows:

- The ambient temperature during the operation of the Products shall not fall below -10°C or exceed 45°C
- The energy throughput for (10) years is less than values in table below:

Product Name	Nominal Energy	Energy Throughput
RESU7H	7.0kWh	19.6MWh
RESU10H	9.8kWh	27.4MWh

Capacity measurement condition

- Ambient temperature: 25~30 °C
- Initial battery temperature from BMS: 25~30 °C

- Charging/discharging method
 - Charge: (0.2)CC/CV (Constant voltage: RESU7H_BPI(126)V/ RESU10H_BPI(176.4)V, Cut-off current (0.05)C)
 - Discharge: (0.2)CC (Cut-off voltage: RESU7H_BPI(90)V/ RESU10H_BPI(126)V)
 - Current at (0.2)C: (12.6)A
- Current and voltage measurement at battery DC side

4. Out of Warranty Policy

Products damage which is not caused by seller, LGC shall provide charged service, including all the expenses of such as material cost, labor cost, warehouse cost, transportation cost, customs duties, analysis cost, management cost, corporate profits, disposal expense(If necessary) and so on.

5. About Service Products/Parts

Service products/parts are able to be used as new or refurbished condition which performance is equal to or higher than defective Products and guaranteed by LGC.

In the event the Products are not available in the market anymore, LGC, at its option, may replace it with different kind of product with equivalent functions and performances or refund the remaining annually depreciated value of the purchase price of the Products during the Term of Performance Warranty as the Compensation Scheme below. The purchase price mentioned hereinabove means the list price actually paid by the Buyer for the purchase.

- Compensation Scheme -

- CLASS I : 100% of the purchase price from the initial installation date to 24th month
- CLASS II : 72% of the purchase price from 25th to 36th month
- CLASS III : 58% of the purchase price from 37th to 48th month
- CLASS IV : 44% of the purchase price from 49th to 60th month
- CLASS V : 30% of the purchase price from 61st to 72nd month
- CLASS VI : 16% of the purchase price from 73rd to 84th month
- CLASS VII : 6% of the purchase price from 85th to 96th month
- CLASS VIII: 4% of the purchase price from 97th to 108th month
- CLASS IX : 2% of the purchase price from 109th to 120th month
- No warranty of performance will be provided from the 121st month

6. Claim Payment Policy

Claims under this Warranty must be made by notifying the Authorized Reseller from whom the Product was purchased. For a Warranty Claim to be processed, it must include following items;

- (1) Proof of the original purchase
- (2) Description of the alleged defect(s) from authorized service center
- (3) The relevant Product's serial number and the initial installation date

Buyers who are unable to contact the Authorized Reseller from whom the Product was purchased should contact LGC at the Q&A page of the LGC Partner Website <http://www.lgesspartner.com>

7. Applicable Law

The Warranty is subject to the law of Australian State. Products come with guarantees that cannot be excluded under the Australian Consumer Law. The Buyer is entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. The Buyer is also entitled to have the goods repaired or replaced if the Products fail to be of acceptable quality and the failure does not amount to a major failure. The benefits to the consumer given by the warranty are in addition to any other rights and remedies of the consumer under a law in relation to the goods or services to which the warranty relates. This warranty only applies to the Buyer who have purchased the Products for their own use.