

Product Specifications

**RESU**

**Note.**

The information included in this specifications is accurate at the time of publication. However, this product is subject to change without prior notice.

## 1.1 Technical Data



▪ Silver



▪ Champaign Gold



Mechanical Characteristics	
Model	RESU3.3
Width	452 mm
Height	401 mm
Depth	120 mm
Weight	31kg

Electrical Characteristics	
Total Energy Capacity	3.3 kWh
Usable Energy Capacity	2.9kWh
Battery Capacity	63 Ah
Voltage Range	42.0~58.8V <sub>DC</sub>
Nominal Voltage	51.8V <sub>DC</sub>
Max. Charge/Discharge Current	71.4A
Max. Charge/Discharge Power <sup>1)</sup>	3.0kW
Peak Power	3.3kW for 3 sec.
Battery Pack Round-Trip Efficiency	>95% (under specific condition)
Communication Interface	CAN
DC Disconnect	Circuit Breaker, Contactor, Fuse

※ Test Conditions  
 - Temperature : 25°C

1) LG Chem recommends 1.1kW for maximum battery lifetime

Operating Conditions	
Installation Location	Indoor(Wall-Mounted) / Outdoor
Operating Temperature	-10~45°C (14~113°F)
Operating Temperature (Recommended)	15~30°C (59~86°F)
Storage Temperature	-30~60°C (-22~140°F)
Humidity	5%~95%
Altitude	Max. 2,000m
Cooling Strategy	Natural Convection

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

## 2.1 Technical Data



▪ Silver



▪ Champaign Gold



Mechanical Characteristics	
Model	RESU6.5
Width	452 mm
Height	654 mm
Depth	120 mm
Weight	52kg

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	4.6kW for 3 sec.
Battery Pack Round-Trip Efficiency	>95% (under specific condition)
Communication Interface	CAN
DC Disconnect	Circuit Breaker, Contactor, Fuse

※ Test Conditions  
- Temperature : 25°C

1) LG Chem recommends 2.2kW for maximum battery lifetime

Operating Conditions	
Installation Location	Indoor(Wall-Mounted) / Outdoor
Operating Temperature	-10~45°C (14~113°F)
Operating Temperature (Recommended)	15~30°C (59~86°F)
Storage Temperature	-30~60°C (-22~140°F)
Humidity	5%~95%
Altitude	Max. 2,000m
Cooling Strategy	Natural Convection

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

### 3.1 Technical Data



▪ Silver



▪ Champaign Gold



#### Mechanical Characteristics

Model	RESU10
Width	452 mm
Height	482.5 mm
Depth	227 mm
Weight	75kg

#### Electrical Characteristics

Total Energy Capacity	9.8 kWh @25°C, 100% SOC
Usable Energy Capacity	8.8kWh
Battery Capacity	189 Ah
Voltage Range	42.0~58.8V <sub>DC</sub>
Nominal Voltage	51.8V <sub>DC</sub>
Max. Charge/Discharge current	119A
Max. Charge/Discharge Power <sup>1)</sup>	5kW
Peak Power	7kW for 3 sec.
Battery Pack Round-Trip Efficiency	>95% (under specific condition)
Communication Interface	CAN
DC Disconnect	Circuit Breaker, Contactor, Fuse

※ Test Conditions  
- Temperature : 25°C

1) LG Chem recommends 3.3kW for maximum battery lifetime

Operating Conditions	
Installation Location	Indoor(Wall-Mounted) / Outdoor
Operating Temperature	-10~45°C (14~113°F)
Operating Temperature (Recommended)	15~30°C (59~86°F)
Storage Temperature	-30~60°C (-22~140°F)
Humidity	5%~95%
Altitude	Max. 2,000m
Cooling Strategy	Natural Convection

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



## 4.1 Technical Data



▪ Silver



▪ Champaign Gold



Mechanical Characteristics	
Model	RESU7H
Width	744 mm
Height	692 mm
Depth	205.7 mm
Weight	76kg

Electrical Characteristics		
Total Energy Capacity	7 kWh	
Usable Energy Capacity	6.6kWh	
Battery Capacity	63Ah	
Inverter Interface Voltage Range	350~450V <sub>DC</sub>	
Charge/Discharge current	Continuous	10A
	Peak	14.3A
Max. Charge/Discharge Power <sup>1)</sup>	3.5kW	
Peak Power	5kW for 5 sec.	
Battery Pack Round-Trip Efficiency	>90% (under specific condition)	
Communication Interface	RS485	
DC Disconnect	Circuit Breaker (600V, 25A)	
Connection Method	Spring Type Connector	

※ Test Conditions  
 - Temperature : 25°C

1) LG Chem recommends 2.3kW for maximum battery lifetime

2) CB : Circuit Breaker

Operating Conditions	
Installation Location	Indoor(Wall-Mounted) / Outdoor
Operating Temperature	-10~45°C (14~113°F)
Operating Temperature (Recommended)	15~30°C (59~86°F)
Storage Temperature	-30~60°C (-22~140°F)
Humidity	5%~95%
Altitude	Max. 2,000m
Cooling Strategy	Natural Convection

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

## 5.1 Technical Data

▪ Silver



▪ Silver\_ Back



▪ Champaign Gold



Mechanical Characteristics			
Model	RESU10H		
Width	744 mm		
Height	907 mm		
Depth	205.7 mm		
Weight	98kg	101kg	

Electrical Characteristics			
Total Energy Capacity	9.8 kWh		
Usable Energy Capacity	9.3kWh		
Battery Capacity	63Ah		
Inverter Interface Voltage Range	350~450V <sub>DC</sub>	385~550V <sub>DC</sub>	
Charge/Discharge current	Continuous	12.6A / 14.3A	10.6A / 11.6A
	Peak	14.3A	16.3A
Max. Charge/Discharge Power <sup>1)</sup>	5kW		
Peak Power	7kW for 10 sec.		
Battery Pack Round-Trip Efficiency	>90% (under specific condition)		
Communication Interface	RS485	CAN	
DC Disconnect	Circuit Breaker (600V, 25A)		
Connection Method	Spring Type Connector		

※ Test Conditions  
 - Temperature : 25°C

1) LG Chem recommends 3.3kW for maximum battery lifetime

2) CB : Circuit Breaker

Operating Conditions	
Installation Location	Indoor(Wall-Mounted) / Outdoor
Operating Temperature	-10~45°C (14~113°F)
Operating Temperature (Recommended)	15~30°C (59~86°F)
Storage Temperature	-30~60°C (-22~140°F)
Humidity	5%~95%
Altitude	Max. 2,000m
Cooling Strategy	Natural Convection

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



This information may not be used, reproduced or disclosed without the expressed prior written consent of LG Chem. All rights reserved.