RESU 10M

9.8kWh Modular Type Battery Pack Specification

LG Energy Solution

RESU10M

Electrical Characteristics

Total Energy Capacity	9.8 kWh
Usable Energy Capacity[1]	9.3 kWh[1]
Battery Capacity	63 Ah
Voltage Range	126.0 to 176.4 V $_{DC}$
Nominal Voltage	155.4 V $_{DC}$
Max. Charge/Discharge Current	39.6 A
Max. Charge/Discharge Power[3]	5.0 kW
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 (Wall-mounted / Floor Standing)
Operating Temperature	-10 to 50°C
Operating Temperature (Recommended)	15 to 30°C
Storage Temperature	-30 to 60°C : acceptable for 7 days in total -20 to 45°C : acceptable for the first 6 months -20 to 30°C : acceptable for 7th ~12th month
Humidity	5% to 95%
Altitude	Max. 2,000 m
Cooling Strategy	Natural Convection

Certification

Safety	Cell	UL1642
	Battery Pack	IEC62619 / IEC60950(LVD) / CE
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)

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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.

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Mechanical Characteristics

		Module	Pack
	Width	452 mm	452 mm
Dimensions	Height	418 mm	510 mm
	Depth	120 mm	240 mm
Weight		36 kg	80 kg
Color	White (Battery module) + Black (BPU)		

510 mm

452 mm

240 mm

Compatible storage Inverters with RESU 10M

Brand	Model	Software Version	Remark
SMA	Sunny Boy Storage 3.7	1.50.14.R or above	- Can use in Back-up Mode - SPS (Secure Power Supply) mode is supported

* Only compatible with the software versions which are mentioned above.

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2021.Jan