

# RESU

# 16H PRIME

16.0kWh Battery Pack Product Specification

**RESU 16H Prime**

Electrical Characteristics		
Nominal Energy		16.45 kWh
Usable Energy <sup>1)</sup>		16.0 kWh @77°F (25°C)
Voltage Range	Charge	420 ~ 450 V <sub>DC</sub>
	Discharge	350 ~ 410V <sub>DC</sub>
Max. Charge/Discharge Current		20A@350V
Max. Charge/Discharge Power		7 kW
Peak Power (only discharging) <sup>2)</sup>		11 kW for 10 sec.
Peak Current (only discharging)		32.8A for 10 sec.
Battery Chemistry		Lithium Ion
Communication Interface		RS485/CAN
DC Protection		Circuit Breaker, Fuse, DCDC converter (Short Circuit Current : 1.616kA)
Connection Method		Spring Type Connector
User interface		LEDs for Normal and Fault operation
Protection Features		Over Voltage / Over Current / short circuit / Reverse Polarity
Scalability (Total Energy, Max. Charge/Discharge Power)		Max. 2 in parallel (32.0 kWh @77°F (25°C), 14kW)
Operating Conditions		
Installation Location		Indoor / Outdoor, Stand only
Operating Temperature	Charge	14 ~ 122°F (-10 ~ 50°C)
	Discharge	-4 ~ 122°F (-20 ~ 50°C)
Operating Temperature (Recommended)		59 ~ 86°F (15 ~ 30°C)
Storage Temperature (At shipping state)		-22 to 140°F (-30 to 60°C), acceptable for 7 days in total -4 to 113°F (-20 to 45°C), acceptable for the first 6 months -4 to 86°F (-20 to 30°C), acceptable for 7th month~12th month
Humidity		5%~95%
Altitude		Max. 6,562ft (2,000m)
Cooling Strategy		Natural Convection
Certification		
Safety	Cell	UL1642
	Battery Pack	UL1973 / CE / RCM / IEC 62619
Emissions		FCC
Hazardous Materials Classification		Class 9
Transportation		UN38.3 (UNDOT)
Ingress Rating		IP55

※ Test Conditions - Temperature 77°F (25°C), at the beginning of life

※ Usable Energy is measured under specific condition from LGES(0.3CCCV/0.3CC)

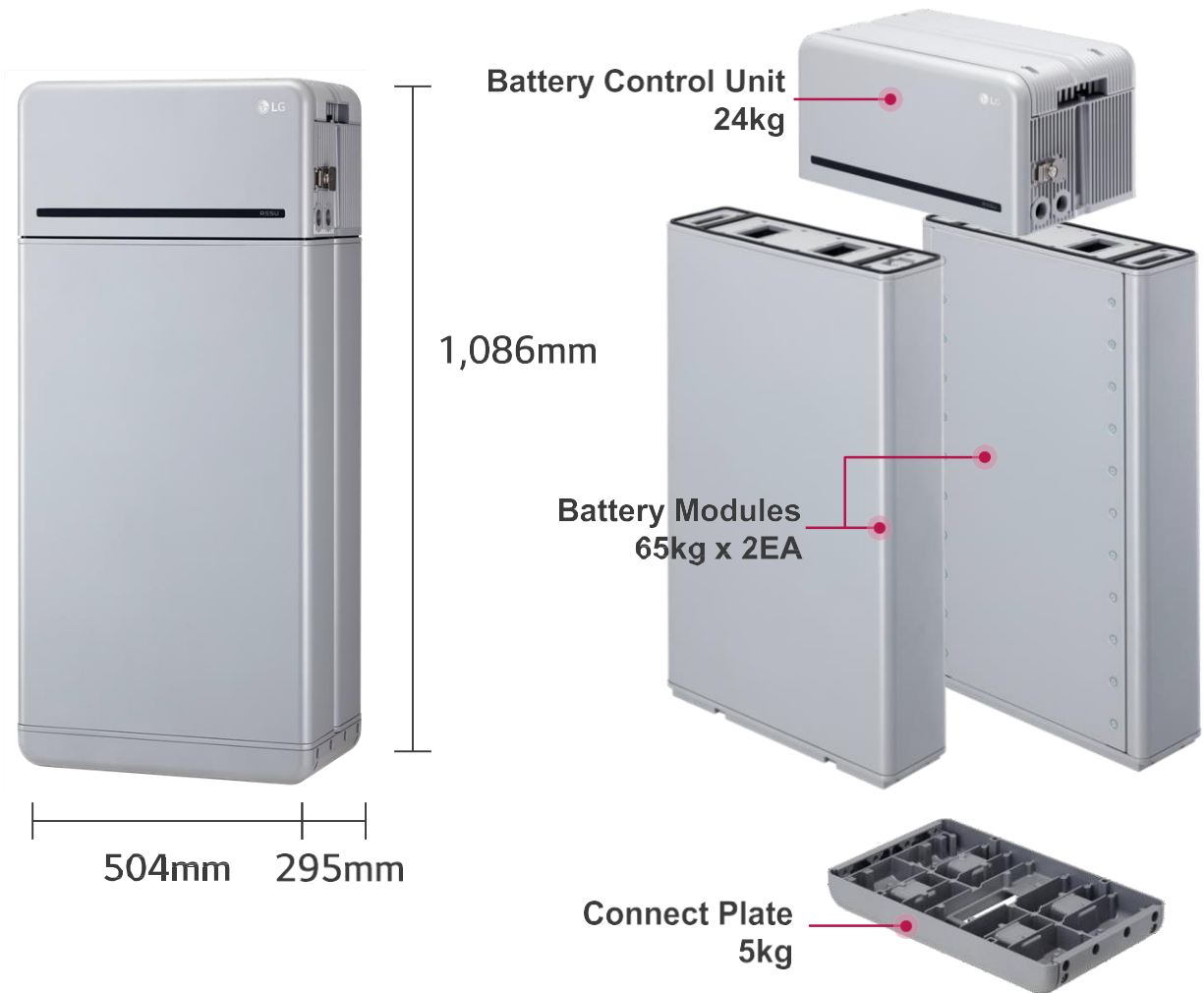
※ Product specification may change without notice

1) DOD 100%. DC/DC converter one way efficiency 97.5%. Ambient 77°F (25°C)

2) Peak Current excludes repeated short duration (less than 10 sec. of current pattern).

**RESU 16H Prime**

Mechanical Characteristics		
Dimensions	Width	504 mm
	Height	1,086 mm
	Depth	295 mm
Weight		159 kg
Country of Manufacture	Cell	South Korea, China
	Pack	South Korea





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