



PhG-ESS-5~20L-S Series

PhaseGreen PhG-ESS-5~20L-S series brings storage solutions to customers with exceptional quality

Approved by California Energy Commission



Friendly capacity options

Stackable module design based on capacity of 5kWh, expandable to 60kWh with 3 systems of 20kWh in parallel



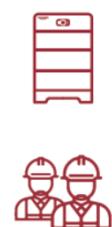
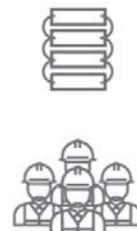
Conventional

PhG-ESS Series



Easy to install

Easy plug-in and ready to use, light-weighted system with less manpower to install



Excellent low temp. performance (Optional)

No degradation in performance at -10°C



Smart battery EMS

Real-time monitoring in control of safe and reliable operation, no boundary to remotely upgrade system for maintenance



Model	PhG-ESS-5L-S	PhG-ESS-10L-S	PhG-ESS-15L-S	PhG-ESS-20L-S
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Electrical characteristics

Nominal energy (kWh)	5	10	15	20
Usable energy 90%DOD (kWh)	4.5	9.0	13.5	18.0
Rated voltage (V)	51.2	51.2	51.2	51.2
Rated charge/discharge current (A)	50/50	100/100	150/150	200/200
Max. charge/discharge current (A)	100/100	180/180	200/200	200/200
Max. continuous discharge rate(kW)	5	9	10	10
Voltage range (V)	44.8~55.2	44.8~55.2	44.8~55.2	44.8~55.2
Roundtrip efficiency	95%	95%	95%	95%
Dimensions W*H*D	573*597*189mm (22.6*23.5*7.4 in)	573*912*189 mm (22.6*35.9*7.4 in)	573*1227*189 mm (22.6*48.3*7.4 in)	573*1542*189 mm (22.6*60.7*7.4 in)
Weight	65kg (143 lb)	115kg(254 lb)	165kg(364 lb)	215kg (474 lb)
Communication interface	CAN/RS485/Wi-Fi			
DC disconnect	Circuit breaker, 250A, 48V rating			
Connection method	Quick plug and unplug terminals			
User interface	Display battery running status, SOC, alarm information, WIFI status, heater status, etc			
Protection features	Charging over-voltage protection, discharge under-voltage Protection features protection, over current protection, over temperature protection, short circuit protection, etc			
Scalability	Max. 3 x 20kWh systems in parallel, expandable capacity of 60kWh			

Operating conditions

Installation location	Outdoor or indoor
Charging temperature	-10°C~50°C (14°F~122°F)
Discharging temperature	-20°C~50°C (-4°F~122°F)
Storage temperature	-30°~60°C (-22°F~140°F)
Humidity	10% to 95%,non condensation
Enclosure rating	IP55
Altitude	2000 m (6562 ft)
Cooling	Natural convection
Certification	IEC/EN62619, EN/IEC61000, EN62311, EN300328, EN301489, UL1973, FCC part15B, UL9540, UL1642, UN38.3, MSDS
Limited warranty	5 years product warranty, 10 years performance warranty

