

SHB-G1

SHB-G1-096-US

Battery Input Data

Battery Type	Li-Ion
Nominal Battery Voltage (V)	300
Battery Voltage Range (V) ¹⁾	80~495
Max. Continuous Charging Current (A)	50
Max. Continuous Discharging Current (A)	50
Max. Charge Power (W)	9,600
Max. Discharge Power (W)	10,080

AC Output Data (On-grid)

Nominal Apparent Power Output to Utility Grid (VA)	9,600
Max. Apparent Power Output to Utility Grid (VA)	9,600
Max. Apparent Power from Utility Grid (VA)	9,600
Max. Apparent Power from Utility Grid Without EV Charger (VA)	9,600
Max. Apparent Power from Utility Grid With EV Charger (VA)	9,600
Nominal Output Voltage (V)	240
Nominal AC Grid Frequency (Hz)	60
Max. AC Current Output to Utility Grid (A)	40
Max. AC Current From Utility Grid (A)	40
Max. AC Current From Utility Grid Without EV Charger (A)	40
Max. AC Current From Utility Grid With EV Charger (A)	40
Nominal AC Current From Utility Grid (A)	40
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)
Max. Total Harmonic Distortion	<3%

AC Output Data (Back-up)

Back-up Nominal Apparent Power (VA)	9,600
Max. Output Apparent Power (VA) ²⁾	9600 (11520@60sec)
Max. Output Current (A)	40
Nominal Output Voltage (V)	240 / 120 (±0.2%)
Nominal Output Frequency (Hz)	60 (±0.2%)
Output THDv (@Linear Load)	<3%

Efficiency

Max. Efficiency	97.00%
CEC Efficiency	96.00%
Max. Battery to AC Efficiency	97.50%

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Protection	
PV String Current Monitoring	Integrated
PV Insulation Resistance Detection	Integrated
Residual Current Monitoring	Integrated
Battery Reverse Polarity Protection	Integrated
Anti-islanding Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short Circuit Protection	Integrated
AC Overvoltage Protection	Integrated
AC Surge Protection	Type III
Battery Arc Fault Detection	Integrated
Emergency Power Off	Integrated

General Data	
Operating Temperature Range	-31°F ~ +140°F (-35°C ~ +60°C)
Relative Humidity	0~95%
Max. Operating Altitude	9842ft (3000m)
Cooling Method	Natural Convection
User Interface	LED, APP
Communication with BMS	RS485, CAN
Communication with Meter	RS485
Communication with Portal	Bluetooth, WiFi, 4G (Optional)
Weight (lb)	74.7
Dimension (W × H × D)	19.1×35.4×7.5 in (485×900×191.5 mm)
Noise Emission (dB)	Will be updated
Topology	Non-isolated
Self-consumption at Night (W) ³⁾	<20
Ingress Protection Rating	NEMA Type 4X
Mounting Method	Wall Mounted

Certification	
Grid Standards	UL1741 SB, California Rule 21, HECO Rule 14, IEEE 1547, IEEE 1547.1
Safety Regulation	UL1741, CSA 22.2 No. 107.1, UL1998, UL1699B
EMC	FCC part15 CLASS B

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Image



Available Accessory | Auto Backup Device

Image



Weight (lb)

26

Dimension (W × H × D)

17.1 x 24 x 5.9 in

- 1) Battery discharge / charge power limited by voltage.

2) Can be reached only if PV and battery power is enough.

3) No Back-up Output.





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