

**SHH-G1**

	SHH-G1-050-GL	SHH-G1-060-GL
<b>Battery Input Data</b>		
Battery Type	Li-Ion	Li-Ion
Nominal Battery Voltage (V)	360	360
Battery Voltage Range (V) <sup>1)</sup>	80~495	80~495
Max. Continuous Charging Current (A)	50	50
Max. Continuous Discharging Current (A)	50	50
Max. Charge Power (W)	5,000	6,000
Max. Discharge Power (W)	5,250	6,300
<b>PV String Input Data</b>		
Max. Input Power (W)	7,500	9,000
Max. Input Voltage (V) <sup>2)</sup>	600	600
MPPT Operating Voltage Range (V) <sup>3)</sup>	80~550	80~550
MPPT Voltage Range at Nominal Power (V)	200~500	200~500
Start-up Voltage (V)	95	95
Nominal Input Voltage (V)	380	380
Max. Input Current per MPPT (A)	13	13
Max. Short Circuit Current per MPPT (A)	16.3	16.3
Max. Backfeed Current to The Array (A)	0	0
Number of MPP Trackers	3	4
Number of Strings per MPPT	1	1
<b>AC Output Data (On-grid)</b>		
Nominal Apparent Power Output to Utility Grid (VA)	5,000	6,000
Max. Apparent Power Output to Utility Grid (VA) <sup>4)</sup>	5,000	6,000
Max. Apparent Power from Utility Grid (VA)	6,000	7,800
Nominal Output Voltage (V)	230	230
Nominal AC Grid Frequency (Hz)	50	50
Max. AC Current Output to Utility Grid (A)	23	26.3
Max. AC Current From Utility Grid (A)	27	34
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion	<3%	<3%
<b>AC Output Data (Back-up)</b>		
Back-up Nominal Apparent Power (VA)	5,000	6,000
Max. Output Apparent Power (VA) <sup>5)</sup>	5,000 (6,000@60s)	6,000 (7,800@60s)
Max. Output Current (A)	23	26.3
Nominal Output Voltage (V)	230 (±2%)	230 (±2%)
Nominal Output Frequency (Hz)	50 (±0.2%)	50 (±0.2%)
Output THDv (@Linear Load)	<3%	<3%

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<b>Efficiency</b>		
Max. Efficiency	97.60%	97.60%
CEC Efficiency	97.00%	97.00%
Max. Battery to AC Efficiency	96.50%	96.50%
MPPT Efficiency	99.90%	99.90%
<b>Protection</b>		
PV Insulation Resistance Detection	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated
Battery Reverse Polarity Protection	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated
DC Switch	Integrated	Integrated
AC Switch	Integrated	Integrated
DC Surge Protection	Type II	Type II
AC Surge Protection	Type II	Type II
AFCI	Optional	Optional
Rapid Shutdown	Optional	Optional
<b>General</b>		
Operating Temperature Range (°C)	-35~+60	-35~+60
Relative Humidity	0~95%	0~95%
Max. Operating Altitude (m)	4000	4000
Cooling Method	Smart Fan Cooling	Smart Fan Cooling
User Interface	LED, WLAN+APP	LED, WLAN+APP
Communication with BMS	RS485, CAN	RS485, CAN
Communication with Meter	RS485	RS485
Communication with Portal	WiFi	WiFi
Weight (kg)	28.8	32.3
Dimension (W×H×D mm)	415×791×175	415×791×175
Noise Emission (dB)	<50	<50
Topology	Non-isolated	Non-isolated
Self-consumption at Night (W) <sup>6)</sup>	<20	<20
Ingress Protection Rating	IP65	IP65
Mounting Method	Wall Mounted	Wall Mounted
Active Anti-islanding Method	AFDPF + AQDPF *7	AFDPF + AQDPF *7
Country of Manufacture	China	China

### SHH-G1

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Certification	
Grid Standards	NRS 097-2-1:2017
Safety Regulation	IEC62109-1&-2
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12, BS EN 50065-1:2011

Image



- 1) Battery discharge/charge power limited by voltage.
- 2) Inverter will not work when PV input voltage  $\geq 585V$ .
- 3) When there is no battery connected, inverter starts feeding in only if string voltage is higher than 200V
- 4) The grid feed in power for VDE-AR-N 4105 and NRS097-2-1 is limited to 4600VA
- 5) Can be reached only if PV and battery power is enough.
- 6) No Back-up Output.



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