

## EH PLUS+ Series

3.6-6kW | Single Phase |  
2 MPPTs | Battery Ready (HV)

The EH Series is an energy storage inverter that is compatible with high voltage Li-Ion batteries ranging from 85 to 460V to provide a highly flexible system design. Its "Battery Ready" design provides a future-proof solution for users who may want to add battery storage in the future, simply by purchasing an activation code. Designed as a highly adaptable and flexible option for residential PV systems, the inverter has its maximum DC input current reached 16A for each string and combines well with high-power PV modules. Featuring UPS-level switching (switching time <10ms) and peak shaving, EH Series ensures a stable and reliable power supply.



### Smart Control for Smart Energy

- <10ms UPS-level switching
- Peak shaving



### Friendly & Thoughtful Design

- Fanless cooling for quiet operation
- Pre-wired communication cables



### Superb Safety & Reliability

- Built-in Type II SPD on DC side
- IP65 ingress protection



### Flexible & Adaptable Applications

- Battery ready option
- Maximum 16A DC input current per string

Technical Data	GW3600N-EH	GW5000N-EH	GW6000N-EH
<b>Battery Input Data</b>			
Battery Type	Li-Ion		
Nominal Battery Voltage (V)	350		
Battery Voltage Range (V)	85 ~ 460		
Max. Continuous Charging Current (A)	25		
Max. Continuous Discharging Current (A)	25		
Max. Charge Power (W)	6000		
Max. Discharge Power (W)	3600	5000	6000
<b>PV String Input Data</b>			
Max. Input Voltage (V)	580		
MPPT Operating Voltage Range (V)	100 ~ 550		
Start-up Voltage (V)	90		
Nominal Input Voltage (V)	380		
Max. Input Current per MPPT (A)	16		
Max. Short Circuit Current per MPPT (A)	21.2		
Number of MPP Trackers	2		
Number of Strings per MPPT	1		
<b>AC Output Data (On-grid)</b>			
Nominal Apparent Power Output to Utility Grid (VA) <sup>2</sup>	3600	5000	6000
Max. Apparent Power Output to Utility Grid (VA) <sup>2</sup>	3600 / 3960 <sup>1</sup>	5000 / 5500 <sup>1</sup>	6000 / 6600 <sup>1</sup>
Max. Apparent Power from Utility Grid (VA)	7200 (Charging 3.6kW, Backup Output 3.6kW)	10000 (Charging 5kW, Backup Output 5kW)	12000 (Charging 6kW, Backup Output 6kW)
Nominal Output Voltage (V)	230 / 220 <sup>5</sup>		
Nominal AC Grid Frequency (Hz)	50 / 60		
Max. AC Current Output to Utility Grid (A)	16 / 18 <sup>1</sup>	21.7 / 24 <sup>1</sup>	26.1 / 28.7 <sup>1</sup> / 27.3 <sup>6</sup>
Max. AC Current From Utility Grid (A)	32	43.4	52.2
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%		
<b>AC Output Data (Back-up)</b>			
Back-up Nominal Apparent Power (VA)	3600	5000	6000
Max. Output Apparent Power (VA)	3600 (4320@60sec)	5000 (6000@60sec)	6000 (7200@60sec)
Max. Output Current (A)	15.7	21.7	26.1
Nominal Output Voltage (V)	230 (±2%)		
Nominal Output Frequency (Hz)	50 / 60 (±0.2%)		
Output THDv (@Linear Load)	<3%		
<b>Efficiency</b>			
Max. Efficiency	97.6%		
European Efficiency	97.0%		
Max. Battery to AC Efficiency	96.6%		
MPPT Efficiency	99.9%		
<b>Protection</b>			
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		
DC Surge Protection	Type II		
<b>General Data</b>			
Operating Temperature Range (°C)	-25 ~ +60		
Relative Humidity	0 ~ 95%		
Max. Operating Altitude (m)	3000 <sup>7</sup>		
Cooling Method	Natural Convection		
User Interface	LED, APP		
Communication with BMS <sup>3</sup>	RS485, CAN		
Communication with Meter	RS485		
Communication with Portal	WiFi / Ethernet (Optional)		
Weight (kg)	17		
Dimension (W x H x D mm)	354 x 433 x 147		
Topology	Non-isolated		
Self-consumption at Night (W) <sup>4</sup>	<10		
Ingress Protection Rating	IP65		
Mounting Method	Wall Mounted		

\*1: For CEI 0-21.

\*2: The grid feed in power for VDE-AR-N 4105 and NRS097-2-1 is limited 4600VA.

\*3: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.

\*4: No Back-up Output.

\*5: For Brazil, the voltage is 220V.

\*6: For Brazil, the current is 27.3A.

\*7: 2000m for Australia.

\*: Please visit GoodWe website for the latest certificates.