




## Enhanced energy independence for PV rooftop owners

- ✓ Optimised energy autonomy
- ✓ Smart and efficient operations
- ✓ Modern and compact design
- ✓ Highest safety standards



**NO.2**  
**91.2%**

Efficient solutions for solar power storage are the key to increased levels of energy autonomy. The EH series delivers high yield for single phase systems and enables high back-up output. Featuring a modern design that does not require fans for cooling, the operation is silent and reliable. An on-grid, battery-ready version of the inverter is available. The EH series is compatible with a range of batteries, including the GoodWe Lynx Home F.

-  High back-up output power
-  UPS level switching <10ms
-  Smart home integration



Technical Data	GW3600-EH	GW5000-EH	GW6000-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. Charging Power (W)	3600	5000	6000
Max. Discharging Power (W)	3600	5000	6000
<b>PV String Input Data</b>			
Max. Input Power (W)	4800	6650	8000
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)		12.5	
Max. Short Circuit Current per MPPT (A)		15.2	
Number of MPPTs		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	10000	12000
Nominal Output Voltage (V)		230 / 220	
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
Max. AC Current From Utility Grid (A)	32	43.4	52.2
Power Factor		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	
<b>General Data</b>			
Operating Temperature Range (°C)		-25 ~ +60	
Relative Humidity		0 ~ 95%	
Max. Operating Altitude (m)		3000	
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.

\*: When there is no battery connected, inverter starts feeding in only if string voltage is higher than 200V.

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