



Smart Control for Smart Energy

- · <10ms UPS-level switching
- · Peak shaving



Superb Safety & Reliability

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



Friendly & Thoughtful Design

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



Flexible & Adaptable Applications

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



Technical Data	GW3600-EH	GW5000-EH	GW6000-EH	GW3600N-EH	GW5000N-EH	GW6000N-EH	
Battery Input Data							
Battery Type			Li-	·lon			
Nominal Battery Voltage (V)	350						
Battery Voltage Range (V)	85 ~ 460						
Max. Continuous Charging Current (A) Max. Continuous Discharging Current (A)	<u>25</u> 25						
Max. Charge Power (W)	3600	5000	6000	6000	6000	6000	
Max. Discharge Power (W)	3600	5000	6000	3600	5000	6000	
PV String Input Data							
Max. Input Power (W)	4800	6650	8000	5400	7500	9000	
Max. Input Voltage (V)	580						
MPPT Operating Voltage Range (V)	100 ~ 550						
Start-up Voltage (V) Nominal Input Voltage (V)	<u>90</u> 380						
Max. Input Current per MPPT (A)	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5	16	16	16	
Max. Short Circuit Current per MPPT (A)	15.2 / 15.2	15.2 / 15.2	15.2 / 15.2	21.2	21.2	21.2	
Number of MPP Trackers				2			
Number of Strings per MPPT				1			
AC Output Data (On-grid)							
Nominal Apparent Power Output to Utility Grid (VA)*2	3600	5000	6000	3600	5000	6000	
Max. Apparent Power Output to Utility Grid (VA)*2	3600 / 3960 ^{*1}	5000 / 5500 ^{*1}	6000 / 6600 ^{*1}	3600 / 3960*1	5000 / 5500*1	6000 / 6600*1	
Max. Apparent Power from Utility Grid (VA)	7200	10000	12000	7200 (Charging 3.6kW, Backup Output 3.6kW)		12000 (Charging 6kW Backup Output 6kW	
Nominal Output Voltage (V)			230		Dackup Output Skvv)	Dackup Output okw	
Output Voltage Range (V)	230 / 220 ⁻⁵ 0 ~ 300						
Nominal AC Grid Frequency (Hz)				/ 60			
Max. AC Current Output to Utility Grid (A)	16 / 18 ^{*1}	21.7 / 24*1	26.1 / 28.7 ^{*1} / 27.3 ^{*6}		21.7 / 24*1	26.1 / 28.7 ^{*1} / 27.3	
Max. AC Current From Utility Grid (A)	32	43.4	52.2	32 15.6	43.4	52.2	
Nominal Output Current (A) Power Factor	15.6	21.7	26.1 djustable from 0.8 l		21.7	26.1	
Max. Total Harmonic Distortion		71		3%	ii ig		
AC Output Data (Back-up)							
Back-up Nominal Apparent Power (VA)	3600	5000	6000	3600	5000	6000	
Max. Output Apparent Power (VA)	3600 (4320@60sec)	5000 (6000@60sec)		3600 (4320@60sec)	5000 (6000@60sec)	6000 (7200@60sec	
Max. Output Current (A)	15.7	21.7	26.1	15.7	21.7	26.1	
Nominal Output Voltage (V)	230 (±2%)						
Nominal Output Frequency (Hz) Output THDv (@Linear Load)	50 / 60 (±0.2%) <3%						
Efficiency				376			
Max. Efficiency			0.7	C0/			
Max. Efficiency European Efficiency	97.6% 97.0%						
Max. Battery to AC Efficiency	96.6%						
MPPT Efficiency			99	.9%			
Protection							
PV Insulation Resistance Detection		Integrated					
Residual Current Monitoring			Integrated				
Battery Reverse Polarity Protection Anti-islanding Protection			Integrated Integrated				
AC Overcurrent Protection		Integrated					
AC Short Circuit Protection			Integrated				
AC Overvoltage Protection		,		grated	T U	T II	
DC Surge Protection	-	-	-	Type II	Type II	Type II	
General Data							
Operating Temperature Range (°C) Relative Humiditv				~ +60 95%			
Max. Operating Altitude (m)	3000	3000	3000	2000	2000	2000	
Cooling Method				Convection	2000	2000	
User Interface	LED, APP						
Communication with BMS ^{'3} Communication with Meter	RS485, CAN RS485						
Communication with Meter Communication with Portal	WiFi / Ethernet (Optional)						
Weight (kg)	17						
Dimension (W x H x D mm)		354 × 433 × 147					
	<35						
Noise Emission (dB)				colated			
Noise Emission (dB) Topology			Non-is	solated 10			
Noise Emission (dB)			Non-is < IF	10 265			
Noise Emission (dB) Topology Self-consumption at Night (W) ⁻⁴			Non-is < IF Wall M	10			

^{*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.
*: Please visit GoodWe website for the latest certificates.