



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-					
Battery Input Data											
Battery Type			Li-	lon							
Nominal Battery Voltage (V)	350										
Battery Voltage Range (V) Start-up Voltage (V)			85 ~	460	85	0.5					
Start-up voltage (v) Number of Battery Input	-	-	-	85 1	1	85 1					
Max. Continuous Charging Current (A)				:5	'						
Max. Continuous Discharging Current (A)				5							
Max. Charging Power (W)	3600	5000	6000	6000	6000	6000					
Max. Discharging Power (W)	3600	5000	6000	3600	5000	6000					
PV String Input Data											
Max. Input Power (W)	4800	6650	8000	7200	10000	12000					
Max. Input Voltage (V)				30							
MPPT Operating Voltage Range (V) Start-up Voltage (V)				~ 550 5							
Nominal Input Voltage (V)				30							
Max. Input Current per MPPT (A)	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5	16.0	16.0	16.0					
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 Output Power (W)	-	-	-	3600	5000	6000					
Nominal Apparent Power Output to Utility Grid (VA)*2		- F000 / FF00*1		3600	5000 5000 / 5500*1	6000					
Max. Apparent Power Output to Utility Grid (VA) ²	3600 / 3960 1	5000 / 5500°1	6000 / 6600 ^{*1}	3600 / 3960*1 7200 (Charging 3.6kW,		6000 / 660 12000 (Charging					
Max. Apparent Power from Utility Grid (VA)	7200	10000	12000	Backup Output 3.6kW)		Backup Output					
Nominal Output Voltage (V)			230 /	220*5	Backap Oatpat okvi)	Васкар Опраг					
Output Voltage Range (V)			0 ~	300							
Nominal AC Grid Frequency (Hz)				/ 60							
Max. AC Current Output to Utility Grid (A)	16.0 / 18.0*1	21.7 / 24.0*1	26.1 / 28.7*1 / 27.3*6		21.7 / 24.0*1	26.1 / 28.7*1 / 2					
Max. AC Current From Utility Grid (A) Nominal Output Current (A)	32.0 15.6	43.4 21.7	52.2 26.1	32.0 15.6	43.4 21.7	52.2 26.1					
Power Factor	10.0		djustable from 0.8 l			20.1					
Max. Total Harmonic Distortion				3%							
AC Output Data (Back-up)											
Back-up Nominal Apparent Power (VA)	3600	5000	6000	3600	5000	6000					
Max. Output Apparent Power without Grid (VA)		5000 (6000@60sec)		3600 (4320@60sec)	5000 (6000@60sec)						
Max. Output Apparent Power with Grid (VA)	-	-	-	3600	5000	6000					
Max. Output Current (A) Nominal Output Voltage (V)	15.7	21.7	26.1	15.7	21.7	26.1					
Nominal Output Voltage (V) Nominal Output Frequency (Hz)	230 (±2%) 50 / 60 (±0.2%)										
Output THDv (@Linear Load)	<3%										
Efficiency											
Max. Efficiency			07	6%							
European Efficiency	97.6% 97.0%										
Max. Battery to AC Efficiency	96.6%										
MPPT Efficiency	99.9%										
Protection											
PV String Current Monitoring	-	_	-	Integrated	Integrated	Integrated					
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrate					
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated					
PV Reverse Polarity Protection Battery Reverse Polarity Protection	- Integrated	- Integrated	- Integrated	Integrated Integrated	Integrated Integrated	Integrate Integrate					
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrate					
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrate					
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrate					
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrate					
DC Switch DC Surge Protection	-	-	<u>-</u>	Integrated Type II	Integrated Type II	Integrated Type II					
AC Surge protection	-	-	-	Type III	Type III	Type III					
Remote Shutdown	-	-	-	Integrated	Integrated	Integrate					
General Data											
Operating Temperature Range (°C)			-25 ·	+60							
Relative Humidity			0 ~ 95%								
Max. Operating Altitude (m)	3000	3000	3000 2000 2000 2000			2000					
Cooling Method		Natural Convection									
User Interface Communication with BMS*3	LED, APP RS485, CAN										
Communication with Meter	RS485										
Communication with Portal	WiFi / Ethernet (Optional)										
Weight (kg)			1	7							
Dimension (W × H × D mm)	354 × 433 × 147										
Noise Emission (dB) Topology	<35										
	Non-isolated <10										
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Self-consumption at Night (W)*4 Ingress Protection Rating			IP	65							
Self-consumption at Night (W)*4			IP Wall M								

^{*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.