



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

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



Flexible & Adaptable Applications

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



Technical Data	GW3600N-EH	GW5000N-EH	GW6000N-EH
Battery Input Data			
Battery Type		Li-lon	
Nominal Battery Voltage (V)		350	
Battery Voltage Range (V)		85 ~ 460	
Start-up Voltage (V)		85	
Number of Battery Input Max. Continuous Charging Current (A)		<u>1</u> 25	
Max. Continuous Charging Current (A) Max. Continuous Discharging Current (A)		25	
Max. Charging Power (W)		6000	
Max. Discharging Power (W)	3600	5000	6000
PV String Input Data			
Max. Input Power (W)*1	5400	7500	9000
Max. Input Voltage (V) MPPT Operating Voltage Range (V)		580 100 ~ 550	
Start-up Voltage (V)		85	
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 Number of Strings per MPPT		<u>2</u>	
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AC Output Data (On-grid)	0000	5000	2000
Nominal Output Power (W) Nominal Apparent Power Output to Utility Grid (VA)*3	3600 3600	5000 5000	6000 6000
Max. Apparent Power Output to Utility Grid (VA)	3600 / 3960 ^{*2}	5000 / 5500°2	6000 / 6600 ^{*2}
May Apparent Power from Litility Crid (VA)	7200 (Charging 3.6kW,	10000 (Charging 5kW,	12000 (Charging 6kV
Max. Apparent Power from Utility Grid (VA)	Backup Output 3.6kW)	Backup Output 5kW)	Backup Output 6kW
Nominal Output Voltage (V)		230 / 220*6	
Nominal AC Grid Frequency (Hz) Max. AC Current Output to Utility Grid (A)	10 / 10*2	50 / 60 21.7 / 24*²	00 1 100 7*2 107 0*7
Max. AC Current From Utility Grid (A)	16 / 18* ² 32	43.4	26.1 / 28.7*² / 27.3*7 52.2
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%		
AC Output Data (Back-up)			
Back-up Nominal Apparent Power (VA)	3600	5000	6000
Max. Output Apparent Power without Grid (VA)	3600 (4320@60sec)	5000 (6000@60sec)	6000 (7200@60sec)
Max. Output Apparent Power with Grid (VA)	3600	5000	6000
Max. Output Current (A) Nominal Output Voltage (V)	15.7	21.7 230 (±2%)	26.1
Nominal Output Frequency (Hz)		50 / 60 (±0.2%)	
Output THDv (@Linear Load)		<3%	
Efficiency			
Max. Efficiency		97.6%	
European Efficiency		97.0%	
Max. Battery to AC Efficiency		96.6%	
MPPT Efficiency		99.9%	
Protection			
PV String Current Monitoring		Integrated	
PV Insulation Resistance Detection Residual Current Monitoring		Integrated Integrated	
PV Reverse Polarity Protection		Integrated	
Battery Reverse Polarity Protection		Integrated	
Anti-islanding Protection		Integrated	
		Integrated	
AC Overcurrent Protection		Integrated	
AC Short Circuit Protection		Intogratod	
AC Short Circuit Protection AC Overvoltage Protection		Integrated	
AC Short Circuit Protection AC Overvoltage Protection DC Switch		Integrated	
AC Short Circuit Protection AC Overvoltage Protection			
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection		Integrated Type II	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge protection		Integrated Type II Type III	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge protection AC Surge protection Remote Shutdown General Data Operating Temperature Range (°C)		Integrated Type II Type III Integrated -25 ~ +60	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge protection AC Surge protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity		Integrated Type II Type III Integrated -25 ~ +60 0 ~ 95%	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge protection AC Surge protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m)		Integrated Type II Type III Integrated -25 ~ +60 0 ~ 95% 3000'8	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge Protection AC Surge Protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method		Integrated Type II Type III Integrated -25 ~ +60 0 ~ 95% 3000°8 Natural Convection	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge protection AC Surge protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface		Integrated Type II Type III Integrated -25 ~ +60 0 ~ 95% 3000'8 Natural Convection LED, APP	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge Protection AC Surge Protection AC Surge protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS ⁻⁴ Communication with Meter		Integrated Type II Type III Integrated -25 ~ +60 0 ~ 95% 3000° Natural Convection LED, APP RS485, CAN RS485	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge Protection AC Surge Protection AC Surge protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS ⁻⁴ Communication with Meter Communication with Portal		Integrated Type II Type III Type IIII Integrated -25 ~ +60 0 ~ 95% 3000°8 Natural Convection LED, APP RS485, CAN RS485 WiFi / Ethernet (Optional)	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge Protection AC Surge protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS ⁻⁴ Communication with Meter Communication with Portal Weight (kg)		Integrated Type II Type III Integrated -25 ~ +60 0 ~ 95% 3000° Natural Convection LED, APP RS485, CAN RS485 WiFi / Ethernet (Optional)	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge Protection AC Surge Protection AC Surge protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS'4 Communication with BMS Communication with Portal Weight (kg) Dimension (W × H × D mm)		Integrated Type II Type III Integrated -25 ~ +60 0 ~ 95% 3000°8 Natural Convection LED, APP RS485, CAN RS485 WiFi / Ethernet (Optional) 17 354 × 433 × 147	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge Protection AC Surge Protection AC Surge protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS ⁻⁴ Communication with Meter Communication with Portal Weight (kg) Dimension (W x H x D mm) Topology		Integrated Type II Type III Integrated -25 ~ +60 0 ~ 95% 3000° Natural Convection LED, APP RS485, CAN RS485 WiFi / Ethernet (Optional) 17 354 × 433 × 147 Non-isolated	
AC Short Circuit Protection AC Overvoltage Protection DC Switch DC Surge Protection AC Surge Protection AC Surge Protection AC Surge protection Remote Shutdown General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS'4 Communication with BMS Communication with Portal Weight (kg) Dimension (W × H × D mm)		Integrated Type II Type III Integrated -25 ~ +60 0 ~ 95% 3000°8 Natural Convection LED, APP RS485, CAN RS485 WiFi / Ethernet (Optional) 17 354 × 433 × 147	

^{*1:} In Australia, for most of the PV module, the max. input power can achieve 2*Pn, Such as the max. input power of GW3600N-EH can achieve 7200W.
*2: For CEI 0-21.

^{*3:} The grid feed in power for VDE-AR-N 4105 and NRS097-2-1 is limited 4600VA.

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

^{*5:} No Back-up Output.
*6: For Brazil, the voltage is 220V.
*7: For Brazil, the current is 27.3A.

^{*8: 2000}m for Australia.
*: Please visit GoodWe website for the latest certificates.