GOODWE

Enhanced energy independence for owners of residential PV systems

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

ENERGY STORAGE Inspection 2022

NO.2
91.2%

Efficient solutions for solar power storage are the key to increased levels of energy autonomy. The EH PLUS+ hybrid inverters are designed to maximise energy output, enhance self-consumption, realise peak-shaving and provide a reliable backup power. 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 PLUS+ 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

EH PLUS+ Series Hybrid Inverter I 3.6 – 6kW I 2 MPPT I Single Phase I HV **EMEA**

EH PLUS+ Series

GOODWE

Technical Data	GW3600N-EH	GW5000N-EH	GW6000N-EH
Battery Input Data			
Battery Type		Li-Ion	
Nominal Battery Voltage (V)		350	
Battery Voltage Range (V)		85 ~ 460	
Start-up Voltage (V)		85	
Number of Battery Input		1	
Max. Continuous Charging Current (A)		25	
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)	5400	7500	9000
Max. Input Voltage (V)		580	
MPPT Operating Voltage Range (V)		100 ~ 550	
Start-up Voltage (V)*5		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		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	3600	5000	6000
Max. Apparent Power Output to Utility Grid (VA)*2	3600 / 3960*1	5000 / 5500*1	6000 / 6600*1
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	
Nominal AC Grid Frequency (Hz)		50 / 60	
Max. AC Current Output to Utility Grid (A)	16.0 / 18.0*1	21.7 / 24.0*1	26.1 / 28.7*1
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%	
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)	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%	
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		Integrated	
Residual Current Monitoring		Integrated	
PV Reverse Polarity Protection		Integrated	
Battery Reverse Polarity Protection		Integrated	
Anti-islanding Protection		Integrated	
AC Overcurrent Protection		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
DC Switch		Integrated	
DC Surge Protection		Type II	
AC Surge protection		Type III	
Remote Shutdown		Integrated	
General Data			
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*3		RS485, CAN	
Communication with Meter		RS485	
Communication with Portal		WiFi / Ethernet (Optional)	
Weight (kg)		17	
Dimension (W × H × D mm)		354 × 433 × 147	
Topology		Non-isolated	
Self-consumption at Night (W)*4		<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: If there is no battery connected, inverter starts feeding into grid only if PV voltage >200V.
*: Please visit GoodWe website for the latest certificates.

This datasheet provides information about products offered in the EMEA region.