GOODWE

EH PLUS+ Series

3.6-6kW I Single Phase I
2 MPPTs I Battery Ready (HV)

The EH Series is an energy storage inverter that is compatible with high voltage Li-Ion batteries ranging from 85 to 460V to provide a highly flexible system design. Its "Battery Ready" design provides a future-proof solution for users who may want to add battery storage in the future, simply by purchasing an activation code. Designed as a highly adaptable and flexible option for residential PV systems, the inverter has its maximum DC input current reached 16A for each string and combines well with high-power PV modules. Featuring UPS-level switching (switching time <10ms) and peak shaving, EH Series ensures a stable and reliable power supply.

Smart Control for Smart Energy
· <10ms UPS-level switching
· Peak shaving

Friendly & Thoughtful Design
· Fanless cooling for quiet operation
· Pre-wired communication cables

Superb Safety & Reliability
· IP65 ingress protection

Flexible & Adaptable Applications
· Battery ready option
· Maximum 16A DC input current per string

EH PLUS+ Series

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Technical Data	GW3600-EH	GW3600N-EH	GW5000-EH-BE	GW5000N-EH	GW5000N-EH-BE	GW6000N-EH
Battery Input Data						
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. Charge Power (W)	3600	6000	5000	6000	6000	6000
Max. Discharge Power (W)	3600	3600	5000	5000	5000	6000
PV String Input Data						
Max. Input Power (W)	4800	5400	6650	7500	7500	9000
Max. Input Voltage (V)	580					
MPPT Operating Voltage Range (V)	100 ~ 550					
Start-up Voltage (V)	90	90	90	90	85	90
Nominal Input Voltage (V)	380					
Max. Input Current per MPPT (A)	12.5	16.0	12.5	16.0	16.0	16.0
Max. Short Circuit Current per MPPT (A)	15.2	21.2	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	3600	5000	5000	5000	6000
Nominal Apparent Power Output to Utility Grid (VA)*2	3600	3600	5000	5000	5000	6000
Max. Apparent Power Output to Utility Grid (VA)*2	3600	3600 / 3960*1	5000	5000 / 5500*1	5000	6000 / 6600*1
Max. Apparent Power from Utility Grid (VA)	7200 (Charging 3.6kW, Backup Output 3.6kW)	7200 (Charging 3.6kW, Backup Output 3.6kW)	10000 (Charging 5kW, Backup Output 5kW)	10000 (Charging 5kW, Backup Output 5kW)	10000 (Charging 5kW, Backup Output 5kW)	12000 (Charging 6kW, Backup Output 6kW)
Nominal Output Voltage (V)	230					
Nominal AC Grid Frequency (Hz)	50 / 60					
Max. AC Current Output to Utility Grid (A)	16.0	16.0 / 18.0*1	21.7	21.7 / 24.0*1	21.7	26.1 / 28.7*1
Max. AC Current From Utility Grid (A)	32.0	32.0	43.4	43.4	43.4	52.2
Power Factor	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	3600	5000	5000	5000	6000
Max. Output Apparent Power (VA)	3600 (4320@60sec)	3600 (4320@60sec)	5000 (6000@60sec)	5000 (6000@60sec)	5000 (6000@60sec)	6000 (7200@60sec)
Max. Output Current (A)	15.7	15.7	21.7	21.7	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 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					
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.
*: Please visit GoodWe website for the latest certificates.