SOLAR POWER SYSTEMS



GOODWE HIGH POWER SINGLE-PHASE HYBRID INVERTERS EHB SERIES | 5KW - 10KW | 3-4 MPPTS





How you benefit:



The EHB series is a unique single-phase hybrid inverter that offers up to four MPPTs, is compatible with high voltage (80-495V) batteries and has a power capacity ranging from 5 kW to 10 kW. Homeowners can now experience the ultimate solution for maximising generation and self-consumption in comfort and security. Intelligent mechanisms are timely activated to ensure power supply to critical loads when most needed. AFCI (Arc-fault current interrupter) and rapid shutdown options likewise ensure the safety of the whole PV system, offering freedom and security all in one.

TECHNICAL DATA



1odel	GW5K-EHB-AU-G11	GW8.6K-EHB-AU-G11	GW9.99K-EHB-AU-G11 ⁻⁵
attery Input Data attery Type			
	Li-lon (GOODWE LX F & LX F G2)		
ominal Battery Voltage (V)	350		
attery Voltage Range (V)*1		80~495	
umber of Battery Input			
ax. Continuous Charging Current (A)		50	
ax. Continuous Discharging Current (A)		50	
ax Charge Power (W)	5000	8600	10000
ax Discharge Power (W)	5250	9030	10500
/ String Input Data			
ax. Input Power (W)	10000	17200	20000
ax. Input Voltage (V)*2		600	
PPT Operating Voltage Range (V)*3		80~550	
art-up Voltage (V)		95	
ominal Input Voltage (V)		380	
ax. Input Current per MPPT (A)		16	
ax. Short Circuit Current per MPPT (A)		24	
	7		4
umber of MPP Trackers	3	4	4
umber of Strings per MPPT		1	
C Output Data (On-grid)			
ominal Output Power (W)	5000	8600	9990
ominal Apparent Power Output to Utility Grid	5000	8600	9990
Ά)	5000	0000	9990
ax. Apparent Power Output to Utility Grid	5055		
(A) ^{*4}	5000	8600	9990
lax. Apparent Power from Utility Grid (VA)	5750	11500	11500
ominal Output Voltage (V)	5750	230	11300
utput Voltage Range (V)		0 ~ 300	
ominal AC Grid Frequency (Hz)		50	
C Grid Frequency Range (Hz)		45 ~ 55	
ax. AC Current Output to Utility Grid (A)	21.7	37.4	43.4
ax. AC Current From Utility Grid (A)	25	50	50
ower Factor	-	1 (Adjustable from 0.8 leading to 0.8 laggir	a)
ax. Total Harmonic Distortion		<3%	
C Output Data (Back-up)			
ack-up Nominal Apparent Power (VA)	5000	8600	9990
	5250 (7000@10sec)	9030 (14000@10sec)	
ax. Output Apparent Power (VA)'4			10500 (14000@10sec)
ax. Output Apparent Power with Grid (VA)	5750	11500	11500
ax. Output Current (A)	22.8	39.3	45.7
ominal Output Voltage (V)		230 (±2%)	
ominal Output Frequency (Hz)		50 (±0.2%)	
output THDv (@Linear Load)		<3%	
fficiency			
lax. Efficiency		97.6%	
uropean Efficiency		97.0%	
lax. Battery to AC Efficiency		96.5%	
IPPT Efficiency		99.9%	
		99.9%	
rotection		late such al	
V Insulation Resistance Detection		Integrated	
esidual Current Monitoring		Integrated	
V Reverse Polarity Protection		Integrated	
attery Reverse Polarity Protection	Integrated		
nti-islanding Protection	Integrated		
C Overcurrent Protection		Integrated	
C Short Circuit Protection		Integrated	
C Overvoltage Protection		Integrated	
C Switch		Integrated	
C Switch		Integrated	
		Type II	
C Surge Protection			
C Surge Protection C Surge Protection		Туре II	
C Surge Protection C Surge Protection eneral Data		Type II	
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C)		Type II -35 ~ +60	
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity		Type II -35 - +60 0 - 95%	
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity		Type II -35 ~ +60	
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m)		Type II -35 - +60 0 - 95%	
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m) ooling Method		Type II -35 - +60 0 - 95% 4000	
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m) ooling Method ser Interface		Type II -35 ~ +60 0 ~ 95% 4000 Smart Fan Cooling LED, WLAN + APP	
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m) ooling Method ser Interface ommunication with BMS		Type II -35 ~ +60 0 ~ 95% 4000 Smart Fan Cooling LED, WLAN + APP RS485, CAN	
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m) coling Method ser Interface ommunication with BMS ommunication with Meter		Type II -35 ~ +60 0 ~ 95% 4000 Smart Fan Cooling LED, WLAN + APP RS485, CAN RS485	
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m) ooling Method ser Interface ommunication with BMS ommunication with Meter ommunication with Portal		Type II -35 - +60 0 - 95% 4000 Smart Fan Cooling LED, WLAN + APP RS485, CAN RS485 WiFi, LAN, 4G	
C Surge Protection C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m) booling Method ser Interface pommunication with BMS pommunication with Meter pommunication with Portal leight (kg)	5000	Type II -35 - +60 0 - 95% 4000 Smart Fan Cooling LED, WLAN + APP R\$485, CAN R\$485 WiFi, LAN, 4G 8600	10000
C Surge Protection C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m) booling Method ser Interface ommunication with BMS ommunication with Meter ommunication with Portal leight (kg)	5000	Type II -35 - +60 0 - 95% 4000 Smart Fan Cooling LED, WLAN + APP RS485, CAN RS485 WiFi, LAN, 4G	10000
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m) ooling Method ser Interface ommunication with BMS ommunication with BMS ommunication with Portal /eight (kg) imensions (W × H × D mm)	5000	Type II -35 - +60 0 - 95% 4000 Smart Fan Cooling LED, WLAN + APP R\$485, CAN R\$485 WiFi, LAN, 4G 8600	10000
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m) pooling Method see Interface pommunication with BMS pommunication with Meter pommunication with Portal (reight (kg) imensions (W × H × D mm) poology	5000	Type II -35 ~ +60 0 ~ 95% 4000 Smart Fan Cooling LED, WLAN + APP RS485, CAN RS485 WiFi, LAN, 4G 8600 415 × 791 × 180 Non-isolated	10000
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m) ooling Method ser Interface ommunication with BMS ommunication with Meter ommunicaiton with Portal leight (kg) imensions (W × H × D mm) opology gress Protection Rating	5000	Type II -35 - +60 0 - 95% 4000 Smart Fan Cooling LED, WLAN + APP RS485, CAN RS485 WiFi, LAN, 4G 8600 415 × 791 × 180 Non-isolated IP65	10000
C Surge Protection C Surge Protection eneral Data perating Temperature Range (°C) elative Humidity ax. Operating Altitude (m) pooling Method see Interface pommunication with BMS pommunication with Meter pommunication with Portal (reight (kg) imensions (W × H × D mm) poology	5000	Type II -35 ~ +60 0 ~ 95% 4000 Smart Fan Cooling LED, WLAN + APP RS485, CAN RS485 WiFi, LAN, 4G 8600 415 × 791 × 180 Non-isolated	10000

^{*1} Battery discharge/charge power limited by voltage.

² Inverter will not work when PV input voltage ≥585V.
 ³ When there is no battery connected, inverter starts feeding in only if string voltage is higher than 200V.

⁴ Can be reached only if PV and battery power is enough.

^{*5} The model name does not represent the rated power, please refer to the marked

parameters for details. ¹⁶ The system will fully use total 150% PV energy to charge battery and turn to AC. ⁴⁷ When EH is in microgrid application, the maximum battery voltage is 405V.

* Please visit **GoodWe** website for the latest certificates.

ir4917 EHB Single Phase Hybrid 5-10kw_April2025_v6

* Refer Solahart Warranty for details of the product warranty and Solahart Owner's Guide & Installation Instructions for installation details.

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