

## EHB Series

5-10kW (South Africa Only) |  
Single-phase Hybrid Inverter |  
HV Battery | up to 4 MPPT

EHB Series is a single-phase hybrid inverter specially designed to meet the increasing energy storage needs from the residential segment. It is the ultimate integrated multi-function system, follows a Plug & Play design and has an external communication connector, making the installation process quick and convenient. Supporting up to 50A battery charge/discharge current, EHB can easily supply power to critical loads when the grid is compromised. It is AFCI-Ready and can support Rapid Shutdown function. All these outstanding features make this inverter a perfect match for application in South African households.



UPS-level Switching



AC Bypass Switch



AFCI Ready & Rapid Shutdown



Strong Backup Power Supply



Installer-friendly



4 MPPT – Higher Yields

Technical Data	GW5000-EHB	GW6500-EHB	GW8600-EHB	GW0010-EHB
<b>Battery Input Data</b>				
Battery Type	Li-Ion*7			
Battery Voltage Range (V)*1	80~495			
Max. Charging Current (A)	50			
Max. Discharging Current (A)	50			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
<b>PV String Input Data</b>				
Max. DC Input Power (W)	7500	9750	12900	15000
Max. DC Input Voltage (V)*2	600			
MPPT Range (V)*3	80~550			
Start-up Voltage (V)	95			
MPPT Range for Full Load (V)	200~500	200~500	255~500	300~500
Nominal DC Input Voltage (V)	380			
Max. Input Current (A)	13 / 13 / 13	13 / 13 / 13 / 13	13 / 13 / 13 / 13	13 / 13 / 13 / 13
Max. Short Current (A)	16.3 / 16.3 / 16.3	16.3 / 16.3 / 16.3 / 16.3	16.3 / 16.3 / 16.3 / 16.3	16.3 / 16.3 / 16.3 / 16.3
No. of MPP Trackers	3	4	4	4
No. of Strings per MPP Tracker	1 / 1 / 1	1 / 1 / 1 / 1	1 / 1 / 1 / 1	1 / 1 / 1 / 1
<b>AC Output Data (On-grid)</b>				
Nominal Output Voltage (Vac)	230			
Nominal Output Frequency (Hz)	50			
Max. Apparent Power Output to Grid (VA)*4	5000	6500	8600	10000
Max. Apparent Power from Grid (VA)	6000	7800	10000	10000
Max. AC Current Output to Grid (A)	23	28.5	39	43.5
Max. AC Current From Grid (A)	27	34	45.5	45.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Output THDi (@Nominal Output)	<3%			
<b>AC Output Data (Back-up)</b>				
Nominal Output Voltage (V)	230 (±2%)			
Nominal Output Frequency (Hz)	50 (±0.2%)			
Automatic Switch Time (ms)	<10			
Output THDv (@Linear Load)	<3%			
Max. Continuous Output Apparent Power (VA)	5000	6500	8600	10000
Peak Output Apparent Power (VA)*5	6000, 60sec	7800, 60sec	10320, 60sec	12000, 60sec
Max. Continuous Output Current (A)	23	28.5	39	43.5
<b>Efficiency</b>				
PV Max. Efficiency	97.6%			
PV CEC Efficiency	97.0%			
Battery Charged By PV Max. Efficiency	98.2%			
Battery Charge/discharge to AC Max. Efficiency	96.5%			
<b>Protection</b>				
PV Arc Fault Detection	Optional			
Rapid Shutdown System (RSS) Transmitter	Optional			
DC&AC Breaker, AC Bypass Switch	Integrated			
AC&DC SPD Type II	Integrated			
Anti-islanding Protection	Integrated			
PV String Input Reverse Polarity Protection	Integrated			
Insulation Resistor Detection	Integrated			
Residual Current Monitoring Unit	Integrated			
Output Over Current Protection	Integrated			
Back-up Output Short Protection	Integrated			
Output Over Voltage Protection	Integrated			
Battery Input Reverse Polarity Protection	Integrated			
<b>General Data</b>				
Operating Temperature Range (°C)	-35~60			
Relative Humidity	0~95%			
Operating Altitude (m)	≤4000			
Cooling	Intelligent Fan			
Noise (dB)	<50			
User Interface	LED & APP (Wi-Fi & Bluetooth)			
DC&AC Power Connect Port	MC4 & ADAPTER WIELAND			
Communication with BMS	RS485; CAN			
Communication with Meter	RS485			
Communication with EMS	RS485 (Insulated)			
Communication with Portal	Wi-Fi			
Communication with RSD	SUNSPEC			
Weight (Kg)	28.8	32.3	32.3	32.3
Dimensions (W × H × D mm)	415 × 791 × 175			
Mounting	Wall Bracket			
Protection Degree	IP65			
Standby Self Consumption (W)*6	<20			
Topology	Transformerless			

\*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: The grid feed in power for VDE-AR-N 4105 and NRS097-2-1 is limited to 4600VA.

\*5: Can be reached only if PV and battery power is enough.

\*6: No Back-up Output.

\*7: EHB Series is compatible with BYD Battery-Box Premium HVM/HVS, PYLON FORCE-H1/H2, LG RESU10H Type-R, DYNES Tower and GoodWe Lynx Home F (Coming Soon).

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