

EH Series

Single Phase Hybrid Inverter (HV Battery)



| Technical Data | | GW3600-EH | GW5000-EH | GW6000-EH |
|---------------------------------------|--|---|---|---|
| Battery Input Data | Battery Type | Li-Ion | | |
| | Battery Voltage Range(V) | 85~450 | | |
| | Start-up Voltage (V) | 90 | | |
| | Max. Charging/Discharging Current (A) | 25/25 | | |
| | Max. Charging/Discharging Power (W) | 3600 | 5000 | 6000 |
| | Battery Ready Optional Function | YES | YES | YES |
| PV String Input Data | Max. DC Input Power (W) | 4800 | 6650 | 8000 |
| | Max. DC Input Voltage (V) | 580 | | |
| | MPPT Range (V) | 100~550 | | |
| | Start-up Voltage (V) | 90 | | |
| | Nominal DC Input Voltage (V) | 380 | | |
| | Max. Input Current (A) | 12.5/12.5 | | |
| | Max. Short Current (A) | 15.2/15.2 | | |
| | No. of MPP Trackers | 2 | | |
| | No. of Strings per MPP Tracker | 1 | | |
| AC Output/Input Data (On-grid) | 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,back-up output3.6kw) | 10000 (Charging 5kw,back-up output 5kw) | 12000 (Charging 6kw,back-up output 6kw) |
| | Nominal Output Voltage (V) | 230 | | |
| | Nominal Output Frequency (Hz) | 50/60 | | |
| | Max. AC Current Output to Utility Grid (A)*2 | 16/18*1 | 21.7/24*1 | 26.1/28.7*1 |
| | Max. AC Current From Utility Grid (A) | 32 | 43.4 | 52.2 |
| | Output Power Factor | ~1 (Adjustable from 0.8 leading to 0.8 lagging) | | |
| | Output THDi (@Nominal Output) | <3% | | |
| Back-up Output Data (Back-up) | Max. Output Apparent Power (VA) | 3600 | 5000 | 6000 |
| | Peak Output Apparent Power (VA) | 4320 ,60sec | 6000 ,60sec | 7200 ,60sec |
| | Max. Output Current (A) | 15.7 | 21.7 | 26.1 |
| | Nominal Output Voltage (V) | 230 (±2%) | | |
| | Automatic Switch Time (ms) | <10 | | |
| | Nominal Output Frequency (Hz) | 50/60 (±0.2%) | | |
| | Output THDv (@Linear Load) | <3% | | |
| Efficiency | PV Max. Efficiency | 97.6% | | |
| | PV Europe Efficiency | 97.0% | | |
| | PV Max. MPPT Efficiency | 99.9% | | |
| | Battery Charged by PV Max. Efficiency | 98.0% | | |
| | Battery Charge/Discharge from/to AC Max. Efficiency | 96.6% | | |
| Protection | Anti-Islanding Protection | Integrated | | |
| | Battery Input Reverse Polarity Protection | Integrated | | |
| | Insulation Resistor Detection | Integrated | | |
| | Residual Current Monitoring Unit | Integrated | | |
| | Output Over Current Protection | Integrated | | |
| | Grid Output Short Protection | Integrated | | |
| | Output Over Voltage Protection | Integrated | | |
| | | | | |
| General Data | Operating Temperature Range (°C) | -35~60 | | |
| | Relative Humidity | 0~95% | | |
| | Operating Altitude (m) | 4000 | | |
| | Cooling | Natural Convection | | |
| | Noise (dB) | <35 | | |
| | User Interface | LED & APP | | |
| | Communication with BMS*3 | RS485; CAN | | |
| | Communication with Meter | RS485 | | |
| | Communication with Portal | Wi-Fi/Ethernet(Optional) | | |
| | Weight (kg) | 17 | | |
| | Size (Width*Height*Depth mm) | 354*433*147 | | |
| | Mounting | Wall Bracket | | |
| | Protection Degree | IP65 | | |
| | Standby Self-Consumption (W)*4 | <10 | | |
| | Topology | Battery Non-Isolation | | |

*1: For CEI 0-21.

*2: The grid feed in power for VDE-AR-N 4105 and NRS097-2-1 is limited 4600VA, for AS/NZS 4777.2 is limited 4950VA & 21.7A.

*3: No back-up output.

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

*: Please visit GoodWe website for the latest certificates.