




GOODWE

Cutting-edge hybrid inverter with smart operation modes and powerful back-up capabilities

- ✓ Lower energy cost
- ✓ Smart and flexible solutions
- ✓ Uninterrupted power supply
- ✓ Superb safety and performance

The ET G2 hybrid inverter is designed to maximise energy output, enhance self-consumption, and facilitate extensive back-up power for homeowners. With power rating up to 15kW, intelligent load controls and a wide battery voltage range, the inverter caters to individual needs. To secure a high level of energy autonomy, combine the hybrid inverter with GoodWe HV battery, and connect the system to the GoodWe EV chargers and/or any smart-grid ready household appliances. By combining a variety of smart operation modes, the system can be optimized to further drive down energy cost.

-  Smart operation modes
-  Powerful backup
-  Integrated smart meter



ET G2 Series

Hybrid Inverter | 6 – 15kW | Up to 3 MPPTs | Three Phase | HV

EMEA

Technical Data	GW6000-ET-20	GW8000-ET-20	GW10K-ET-20	GW12K-ET-20	GW15K-ET-20
Battery Input Data					
Battery Type	Li-Ion				
Nominal Battery Voltage (V)	500				
Battery Voltage Range (V)	150 ~ 720				
Start-up Voltage (V)	150				
Number of Battery Input	1				
Max. Continuous Charging Current (A)	30	30	40	40	40
Max. Continuous Discharging Current (A)	30	30	40	40	40
Max. Charging Power (W)	9000	12000	15000	18000	24000
Max. Discharging Power (W)	6600	8800	11000	13200	16500
PV String Input Data					
Max. Input Power (W) ¹	9600	12800	16000	19200	24000
Max. Input Voltage (V) ²	1000				
MPPT Operating Voltage Range (V)	120 ~ 850				
Start-up Voltage (V)	150				
Nominal Input Voltage (V)	620				
Max. Input Current per MPPT (A)	16				
Max. Short Circuit Current per MPPT (A)	24				
Number of MPP Trackers	2	2	3	3	3
Number of Strings per MPPT	1				
AC Output Data (On-grid)					
Nominal Output Power (W)	6000	8000	10000	12000	15000
Nominal Apparent Power Output to Utility Grid (VA)	6000	8000	10000	12000	15000
Max. Apparent Power Output to Utility Grid (VA) ³	6000	8000	10000	12000	15000
Max. Apparent Power from Utility Grid (VA)	12000	16000	20000	20000	20000
Nominal Output Voltage (V)	400 / 380, 3L / N / PE				
Output Voltage Range (V) ⁴	170 ~ 290				
Nominal AC Grid Frequency (Hz)	50 / 60				
AC Grid Frequency Range (Hz)	45 ~ 65				
Max. AC Current Output to Utility Grid (A) ⁵	8.7	11.6	14.5	17.4	21.7
Max. AC Current From Utility Grid (A)	15.7	21.0	26.1	26.1	26.1
Power Factor	0.8 leading~0.8 lagging				
Max. Total Harmonic Distortion	<3%				
AC Output Data (Back-up)					
Back-up Nominal Apparent Power (VA)	6000	8000	10000	12000	15000
Max. Output Apparent Power without Grid (VA)	6000 (12000 @60sec) ⁶	8000 (16000 @60sec)	10000 (18000 @60sec)	12000 (18000 @60sec)	15000 (18000 @60sec)
Max. Output Apparent Power with Grid (VA)	6000	8000	10000	12000	15000
Max. Output Current (A)	13.0 (17.4 @60sec)	17.4 (23.3 @60sec)	21.7 (26.1 @60sec)	21.7 (26.1 @60sec)	21.7 (26.1 @60sec)
Nominal Output Voltage (V)	400 / 380				
Nominal Output Frequency (Hz)	50 / 60				
Output THDv (@Linear Load)	<3%				
Efficiency					
Max. Efficiency	98.0%	98.0%	98.2%	98.2%	98.2%
European Efficiency	97.2%	97.2%	97.5%	97.5%	97.5%
Max. Battery to AC Efficiency	97.2%	97.5%	97.5%	97.5%	97.5%
MPPT Efficiency	99.5%				
Protection					
PV Insulation Resistance Detection	Integrated				
PV AFCI3.0	Optional				
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 II				
Remote Shutdown	Integrated				
General Data					
Operating Temperature Range (°C)	-35 ~ +60				
Relative Humidity	0 ~ 100%				
Max. Operating Altitude (m)	4000				
Cooling Method	Natural Convection				
User Interface	LED, WLAN + APP				
Communication with BMS	RS485, CAN				
Communication with Meter	RS485				
Communication with Portal	WiFi + LAN + Bluetooth				
Weight (kg)	23	23	25	25	25
Dimension (W x H x D mm)	496 x 460 x 221				
Noise Emission (dB)	<30	<30	<30	<45	<45
Topology	Non-isolated				
Self-consumption at Night (W) ⁷	<15				
Ingress Protection Rating	IP66				
Mounting Method	Wall Mounted				

*1: Max. Input Power, not continuous for 1.6*normal power.

*2: For 1000V system, Maximum operating voltage is 950V.

*3: According to the local grid regulation.

*4: Output Voltage Range: phase voltage.

*5: The Max. AC Current Output to on-grid load is 13A, 17.4A, 21.7A, 21.7A, 21.7A separately.

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

*7: No Back-up Output.

*: Please visit GoodWe website for the latest certificates.