

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	40
Max. Continuous Discharging Current (A)	30	30	40	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.