

GOODWE

ET G2 Series

6-15kW | Three Phase | Up to 3 MPPTs
Hybrid Inverter (HV)

The ET G2 Series is the latest iteration of the ET Series and has been specially designed to accommodate households' increasing demand for electricity consumption while delivering additional benefits that cater to flexible residential needs. This inverter features an elegant and sleek design that can harmonize beautifully with the house's aesthetic. With the addition of 12kW and 15kW higher power capacities, the ET G2 is now equipped to deliver even more powerful generation, allowing for optimal energy harvesting. It supports parallel connections with up to 6 units, ideal for expanding energy needs. Additionally, smart load control, 100% unbalanced output, and a focus on system reliability and safety enable versatile and sustainable applications.



Smart Control & Monitoring

- Integrated dry contact for external loads
- Backup with UPS-level switching <10ms
- Peak shaving



Friendly & Thoughtful Design

- Plug & Play installations
- Elegant and compact design



Superb Safety & Reliability

- Integrated AFCI
- IP66 ingress protection
- Type II SPD on DC & AC sides



Flexible & Adaptable Applications

- Maximum 16A DC input current per string
- Up to 160% DC input oversizing
- Parallel connection capability for increased output power

Technical Data	GW6000-ET-20	GW8000-ET-20	GW9900-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
Max. Short Circuit Current (A)	85@3us				
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	9990	12000	15000
Nominal Apparent Power Output to Utility Grid (VA)	6000	8000	9990	12000	15000
Max. Apparent Power Output to Utility Grid (VA) ³	6000	8000	9990	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%				
Max. Short Circuit Current (A)	200@1ms				
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 at 60 sec) ⁶	8000 (16000 at 60 sec)	10000 (18000 at 60 sec)	12000 (18000 at 60 sec)	15000 (18000 at 60 sec)
Max. Output Apparent Power with Grid (VA)	6000	8000	10000	12000	15000
Max. Output Current (A)	13.0 (17.4 at 60 sec)	17.4 (23.3 at 60 sec)	21.7 (26.1 at 60 sec)	21.7 (26.1 at 60 sec)	21.7 (26.1 at 60 sec)
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	Integrated				
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%				
Operating Environment	Outdoor				
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	LAN (4G optional) + Bluetooth + WiFi				
Weight (kg)	23	23	25	25	25
Dimension (W x H x D mm)	496 x 460 x 221				
Topology	Non-isolated				
Ingress Protection Rating	IP66				
Environmental Category	4K4H				
Overvoltage Category	DC II / AC III				
Protective Class	I				
Active Anti-islanding Method ⁷	AFDPF + AQDPF				
Mounting Method	Wall Mounted				
Country of Manufacture	China				

*1: Max. Input Power, not continuous for 1.6*normal power. Besides, in Australia, for most of the PV module, the max. input power can achieve 2*Pn, Such as the max. input power of GW6000-ET-20 can achieve 12000W.

*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, 21.7A separately.

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

*7: AFDPF: Active Frequency Drift with Positive Feedback, AQDPF: Active Q Drift with Positive Feedback.

*: Please visit GoodWe website for the latest certificates.