GOODWE

ET G2 Series

6-15kW I Three Phase I 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

Superb Safety & Reliability

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

Friendly & Thoughtful Design

- Plug & Play installations
- Elegant and compact design

Flexible & Adaptable Applications

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

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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 (26.1at 60 sec)	21.7 (26.1at 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 × H × D mm)			496 × 460 × 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.