GOODWE

ET G2 Series

6-15kW I Three Phase I 2/3 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 4 units, ideal for expanding energy needs.



Flexible & Adaptable Applications
- Integrated dry contact for external loads
- Backup with UPS-level switching <10ms
- Fast load response

Superb Safety & Reliability
- AI-driven AFCI 3.0[1]
- IP66 ingress protection
- Type II SPD on DC & AC sides

Friendly & Thoughtful Design
- Plug & Play installations
- Elegant and compact design

Higher Power Generation
- Unbalanced output up to 150%[2]
- Up to 160% PV input oversizing
- Parallel connection capability for increased output power

1: Optional functions or devices are purchased separately.
2: Only for the GW6K-ET-20, GW8K-ET-20, GW10K-ET-20 models.

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Technical Data	GW6000-ET-20	GW8000-ET-20	GW10K-ET-20	GW12K-ET-20	GW15K-ET-20
Battery Input Data					
Battery Type*1			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)*2	9600	12800	16000	19200	24000
Max. Input Voltage (V)*3*4			1000		
MPPT Operating Voltage Range (V)*5			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)*6	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)*7			170 ~ 290		
Nominal AC Grid Frequency (Hz)			50 / 60		
AC Grid Frequency Range (Hz)			45 ~ 65		
Max. AC Current Output to Utility Grid (A)*8	8.7	11.6	14.5	17.4	21.7
Max. AC Current From Utility Grid (A)	15.7	21.0	26.1*9	26.1*9	26.1*9
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)*10	6000 (12000 @60sec)	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 × H × D mm)			496 × 460 × 221		
Topology			Non-isolated		
Ingress Protection Rating			IP66		
Mounting Method			Wall Mounted		

*1: The Li-Ion battery usually contain two mainstream type: LFP and Ternary Lithium battery.
*2: Max. input power, not continuous for 1.6*normal power. Besides, in Australia, for most of the PV modules, the max. input power can reach 2*Pn, for example, the max. input power of GW6000-ET-20 can reach 12000W.
*3: For 1000V system, the maximum operating voltage is 950V.
*4: When the input voltage ranges from 975V to 1000V, the inverter will enter the standby mode, and the voltage returns to 975V to enter the normal operation state.
*5: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.
*6: According to the local grid regulation.
*7: Output Voltage Range: phase voltage.
*8: When the three-unbalance function is activated, the Max. AC Current Output to the on-grid load can reach 13A, 17.4A, 21.7A, 21.7A and 21.7A respectively.
*9: If the inverter is installed with the 3×25A AC breaker, it is suggested that the consumption and feed-in AC power should be less than 11040W (0.8×0.8×25×230×3), and this limitation can be set by SolarGo App.
*10: Can be reached only if PV and battery power is enough.
*: Please visit GoodWe website for the latest certificates.

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