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 I 12 – 15kW I 3 MPPTs I Three Phase I HV **EMEA**

ET G2 Series

GOODWE

Technical Data	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)	40	
Max. Continuous Discharging Current (A)	40	
Max. Charging Power (W)	18000	24000
Max. Discharging Power (W)	13200	16500
PV String Input Data		
Max. Input Power (W)*1	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	3	
Number of Strings per MPPT	1	
AC Output Data (On-grid)		
Nominal Output Power (W)	12000	15000
Nominal Apparent Power Output to Utility Grid (VA)	12000	15000
Max. Apparent Power Output to Utility Grid (VA)*3	12000	15000
Max. Apparent Power from Utility Grid (VA)	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	17.4	21.7
Max. AC Current From Utility Grid (A)	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)	12000	15000
Max. Output Apparent Power without Grid (VA)	12000 (18000 @60sec)	15000 (18000 @60sec)
Max. Output Apparent Power with Grid (VA)	12000	15000
Max. Output Current (A)	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	98.2%	
European Efficiency	97.5%	
Max. Battery to AC Efficiency	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 (℃)	-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)	25	
Dimension (W × H × D mm)	496 × 460 × 221	
Noise Emission (dB)	<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 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.

This datasheet provides information about products offered in the EMEA region.