GOODWE

ET Series

80-100kW I Three Phase I 8 MPPTs Hybrid Inverter (HV)

Powerful and compact, the ET Series 80-100kW hybrid inverter is a key addition to GoodWe's Commercial and Industrial (C&I) portfolio. It features an efficient DC-coupled architecture well-suited for solar-plus-storage applications. The inverter is compatible with a range of battery capacities and leverages intelligent operating modes to optimize system performance across various scenarios such as self-consumption, peak shaving, time-of-use, and grid support.

Optimized Performance

- 8 MPPTs,200% PV oversizing
- Up to 21A per string
- 110% Unbalanced Load
- 150% AC Overloading @10s
- DC Coupling for Smarter Energy and Higher Efficiency

Superb Safety & Reliability

- <4ms UPS-Level Switching with STS
- Type I + II SPD on DC side[1]
- Smart temp. sensing on AC and PV connectors
- Smart DC Circuit Breaker[1]

Flexible & Adaptable Applications

- Dual Independent Battery Inputs for More Flexible Configuration, Supporting up to 220A
- Supports ET100 with BAT100, 1C Charge and Discharge
- Generator Start-Stop Control via DI/DO Interfaces
- Seamless Backup Power with up to 200A Output

1: Optional functions or devices are purchased separately.

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Technical Data	GW80K-ET-G10	GW99.99K-ET-G10	GW100K-ET-G10
Battery Side			
Battery Type		Li-Ion	
Nominal Voltage (V)		600	
Voltage Range (V)		300 ~ 800	
Start-up Voltage (V)		300	
Number of Battery Inputs		2	
Max. Continuous Charging Current (A)	100 × 2	110 × 2	110 × 2
Max. Continuous Discharging Current (A)	100 × 2	110 × 2	110 × 2
Max. Charging Power (kW)	88	99.99	110
Max. Discharging Power (kW)	88	99.99	110
PV Side			
Max. Input Power (kW)	160	200	200
Max. Input Voltage (V)*1		1000	
MPPT Operating Voltage Range (V)*2		160 ~ 950	
Start-up Voltage (V)		200	
Nominal Input Voltage (V)		620	
Max. MPPT Current (A)		42 × 8	
Max. MPPT Short Circuit Current (A)		55 × 8	
Number of MPPTs		8	
Number of Strings per MPPT		2	
AC Side (on-grid)			
Nominal Power (kW)	80	99.99	100
Max. Power (kW)	88*4	99.99	110*4
Nominal Apparent Power from / to Grid (kVA)	80	99.99	100
Max. Apparent Power to Grid (kVA)	88*5	99.99	110*5
Max. Apparent Power from Grid (kVA)	88*5	99.99	110*5
Nominal Voltage (V)		220 / 380, 230 / 400, 240 / 415, 3L / N / PE	
Voltage Range (V) (according to local standard)		180 ~ 280	
Nominal Frequency (Hz)		50 / 60	
Frequency Range (Hz)		45 ~ 55 / 55 ~ 65	
Nominal Current from / to Grid (A)	121.6 @380Vac; 115.5 @400Vac; 111.3 @415Vac	152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac	152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac
Max. Current to Grid (A)*6	133.8 @380Vac; 127.1 @400Vac; 122.5 @415Vac	152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac	167.2 @380Vac; 158.8 @400Vac; 153.1 @415Vac
Max. Current from Grid (A)*6	133.8 @380Vac; 127.1 @400Vac; 122.5 @415Vac	152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac	167.2 @380Vac; 158.8 @400Vac; 153.1 @415Vac
Power Factor		0.8 leading ~ 0.8 lagging	
THDi		<3%	
Backup Side*3			
Nominal Output Apparent Power (kVA)	80	99.99	100
Max. Output Apparent Power (kVA)	88	99.99	110
Peak Output Power without Grid (kW)	110% @ continuous; 120% @ 60s; 150% @ 10s	120% @ 60s; 150% @ 10s	110% @ continuous; 120% @ 60s; 150% @ 10s
Nominal Output Voltage (V)		220 / 380, 230 / 400, 240 / 415, 3L / N / PE	
Nominal Output Frequency (Hz)		50 / 60	
Max. Output Current (A)	133.8 @380Vac; 127.1 @400Vac; 122.5 @415Vac	152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac	167.2 @380Vac; 158.8 @400Vac; 153.1 @415Vac
THDv (@Linear Load)		<3%	
On / Off-grid Switching Time		<4ms	
Generator Side*3			
Nominal Apparent Power (kVA)	80	99.99	100
Max. Apparent Power (kVA)	88	99.99	110
Nominal Voltage (V)		220 / 380, 230 / 400, 240 / 415, 3L / N / PE	
Nominal Frequency (Hz)		50 / 60	
Frequency Range (Hz)		45 ~ 55 / 55 ~ 65	
Max. Current (A)	133.8 @380Vac; 127.1 @400Vac; 122.5 @415Vac	152.0 @380Vac; 144.4 @400Vac; 139.2 @415Vac	167.2 @380Vac; 158.8 @400Vac; 153.1 @415Vac
Efficiency			
Max. Efficiency		98.1%	
European Efficiency		97.7%	
Max. Battery to AC Efficiency		98.2%	
MPPT Efficiency		99.9%	
Protection			
PV String Current Monitoring		Integrated	
PV Insulation Resistance Detection		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 (Type I + II Optional)	
AC Surge Protection		Type II	
AFCI*7		Optional	
Rapid Shutdown		Optional	
Remote Shutdown		Optional	
General Data			
Operating Temperature Range (°C)		-35 ~ +60	
Relative Humidity		0 ~ 100%	
Max. Operating Altitude (m)		4000	
Cooling Method		Smart Fan Cooling	
User Interface		LED, LCD (Optional), WLAN + APP	
Communication with BMS		CAN	
Communication		RS485, WiFi + LAN + Bluetooth, 4G + Bluetooth (Optional)	
Communication Protocols		Modbus-RTU, Modbus-TCP	
Weight (kg)		97	
Dimension (W × H × D mm)		995 × 758 × 358	
Noise Emission (dB)		<60	
Power Self-consumption at Night (W)		<15	
Ingress Protection Rating		IP66	
Anti-corrosion Class		C4	
Mounting Method		Wall Mounted	

*1: For GW75K-ET-G10/GW80K-ET-G10/GW99.99K-ET-G10/GW100K-ET-G10, when the input voltage ranges from 950V to 1000V, the inverter will enter the standby mode, and the voltage returns to 950V to enter the normal operation state.
*2: Please refer to the user manual for the MPPT Voltage Range at nominal Power.
*3: The STS Box or STS Cabinet is needed.
*4: For Chile, Max. Power (kW): GW80K-ET-G10: 80kW, GW100K-ET-G10: 100kW.
*5: For Chile, Max. Apparent Power to Grid (kVA)/Max. Apparent Power from Grid (kVA): GW80K-ET-G10: 80kVA, GW100K-ET-G10: 100kVA.
*6: For Chile, Max. Current to Grid (A)/Max. Current from Grid (A): GW80K-ET-G10: 121.6@380Vac, 115.5@400Vac, 111.3@415Vac; GW100K-ET-G10: 152.0@380Vac, 144.4@400Vac, 139.2@415Vac.
*7: For Brazil, AFCI: Integrated.
*: Please visit GoodWe website for the latest certificates.