GOODWE

ET Series

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

Powerful and compact, the ET 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. Its parallel connection capability facilitates seamless expansion for both on-grid and off-grid setups.



COMING SOON

Optimized Performance

- 21A per string & 200% PV oversizing
- Dual independent battery inputs with 220A
- Compatible with GoodWe BAT 100kWh battery for 1C charge/discharge system

Flexible & Adaptable Applications

- Support on/off-grid switching and generator compatibility when paired with STS
- Enable multi-unit and grid-tied inverter parallel connection via SEC3000C

Superb Safety & Reliability

- AI-driven AFCI 3.0[1]
- Smart temperature sensing on AC and PV connectors
- Type I+II SPD on the DC side

Friendly & Thoughtful Design

- Easy configuration with LCD touch screen
- Hanging on battery cabinet to save space

1: Optional functions or devices are purchased separately.

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Technical Data	GW80K-ET-G10	GW100K-ET-G10
Battery Input Data		
Battery Type	Li-Ion	
Nominal Battery Voltage (V)	600	
Battery Voltage Range (V)	300 ~ 800	
Start-up Voltage (V)	300	
Number of Battery Input	2	
Max. Continuous Charging Current (A)	100 × 2	
Max. Continuous Discharging Current (A)	100 × 2	
Max. Charging Power (kW)	88	110
Max. Discharging Power (kW)	88	110
PV String Input Data		
Max. Input Power (kW)	160	200
Max. Input Voltage (V)	1000	
MPPT Operating Voltage Range (V)	160 ~ 950	
Start-up Voltage (V)	200	
Nominal Input Voltage (V)	620	
Max. Input Current per MPPT (A)	42	
Max. Short Circuit Current per MPPT (A)	55	
Number of MPP Trackers	8	
Number of Strings per MPPT	2	
AC Output Data (On-grid)		
Nominal Output Power (kW)	80	100
Nominal Apparent Power Output to Utility Grid (kVA)	80	100
Max. Apparent Power Output to Utility Grid (kVA)	88	110
Max. Apparent Power from Utility Grid (kVA)	80	100
Nominal Output Voltage (V)	220 / 380, 230 / 400 / 415, 3L / N / PE	
Output Voltage Range (V)	180 ~ 280 (according to local standard)	
Nominal AC Grid Frequency (Hz)	50 / 60	
AC Grid Frequency Range (Hz)	45 ~ 55 / 55 ~ 65	
Max. AC Current Output to Utility Grid (A)	133.8	167.2
Max. AC Current from Utility Grid (A)	133.8	167.2
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion	<3%	
AC Output Data (Back-up)		
Back-up Nominal Apparent Power (kVA)	80	100
Max. Output Apparent Power without Grid (kVA)	88	110
Max. Output Apparent Power with Grid (kVA)	138	138
Max. Output Current (A)	133.8	167.2
Nominal Output Voltage (V)	220 / 380, 230 / 400, 240 / 415, 3L / N / PE	
Nominal Output Frequency (Hz)	50 / 60	
Output THDv (@Linear Load)	<3%	
AC Data (Generator)		
Nominal Apparent Power from AC generator (kVA)	80	100
Max. Apparent Power from AC generator (kVA)	138	138
Nominal Input Voltage (V)	380 / 400 / 415	
Nominal AC generator Frequency (Hz)	50 / 60	
AC generator Frequency Range (Hz)	45 ~ 55 / 55 ~ 65	
Efficiency		
Max. Efficiency	98.50%	
European Efficiency	98.30%	
Max. Battery to AC Efficiency	98.20%	
MPPT Efficiency	99.90%	
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	Optional	
Rapid Shutdown	Optional	
Remote Shutdown	Integrated	
I-V Curve Scan	Integrated	
I-V Curve Diagnosis	Integrated	
General Data		
Operating Temperature Range (°C)	-35 ~ +60	
Relative Humidity	0 ~ 95%	
Max. Operating Altitude (m)	4000	
Cooling Method	Smart Fan Cooling	
User Interface	LED, LCD (Optional), WLAN + APP	
Communication with BMS	CAN	
Communication with Meter	RS485	
Communication with Portal	WiFi / 4G	
Weight (kg)	95	
Dimension (W × H × D mm)	997 × 758 × 340	
Topology	Non-isolated	
Ingress Protection Rating	IP66	
DC Connector	MC4 (4 ~ 6mm^2)	
AC Connector	OT (max. 240mm^2)	
Mounting Method	Wall Mounted	

*: Please visit GoodWe website for the latest certificates.
*: As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.

Preliminary

GoodWe-Single page-20250613-EN-D2.0 Information may be subject to change without notice during product improving.(draft version)