GOODWE

ET Series

75-100kW I Three Phase I 8 MPPTs Hybrid Inverter (HV)

Powerful and compact, the ET Series 75-100kW 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

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

Superb Safety & Reliability

- <10ms 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]

1: Optional functions or devices are purchased separately.

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Technical Data	GW75K-ET-G10	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)	85 x 2	100 x 2	110 x 2	110 x 2
Max. Continuous Discharging Current (A)	85 x 2	100 x 2	110 x 2	110 x 2
Max. Charging Power (kW)	75	88	99.99	110
Max. Discharging Power (kW)	75	88	99.99	110
PV Side				
Max. Input Power (kW)	150	160	200	200
Max. Input Voltage (V)*1	1000	1000	1000	1000
MPPT Operating Voltage Range (V)*2	160 ~ 950	160 ~ 950	160 ~ 950	160 ~ 950
Start-up Voltage (V)	200			
Nominal Input Voltage (V)	620	620	620	620
Max. MPPT Current (A)	42 x 8			
Max. MPPT Short Circuit Current (A)	55 x 8			
Number of MPPTs	8			
Number of Strings per MPPT	2			
AC Side (on-grid)				
Nominal Power (kW)	75	80	99.99	100
Max. Power (kW)	75	88*4	99.99	110*4
Nominal Apparent Power from / to Grid (kVA)	75	80	99.99	100
Max. Apparent Power to Grid (kVA)	75	88*5	99.99	110*5
Max. Apparent Power from Grid (kVA)	75	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)	114.0 @380Vac; 108.3 @400Vac; 104.4 @415Vac	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	114.0 @380Vac; 108.3 @400Vac; 104.4 @415Vac	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	114.0 @380Vac; 108.3 @400Vac; 104.4 @415Vac	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)	75	80	99.99	100
Max. Output Apparent Power (kVA)	75	88	99.99	110
Peak Output Power without Grid (kW)	120% @ 60s; 150% @ 10s	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)	114.0 @380Vac; 108.3 @400Vac; 104.4 @415Vac	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	<10ms			
Generator Side*3				
Nominal Apparent Power (kVA)	75	80	99.99	100
Max. Apparent Power (kVA)	75	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)	114.0 @380Vac; 108.3 @400Vac; 104.4 @415Vac	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%	98.1%	98.1%	98.1%
European Efficiency	97.7%	97.7%	97.7%	97.7%
Max. Battery to AC Efficiency	98.2%	98.2%	98.2%	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 x H x D mm)	995 x 758 x 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.

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