GOODWE

ET Series

25-50kW I Three Phase I 3/4 MPPTs
Hybrid Inverter (HV)

GoodWe's ET Series inverters, available in 25-50kW capacities, are designed for commercial and industrial PV installations. These adaptable inverters seamlessly integrate into both on-grid and off-grid applications, facilitating parallel connections in either scenario. When paired with the Static Transfer Switch (STS) Box from GoodWe, the inverter not only ensures dependable UPS-level switching to backup mode but also interacts with diesel generators to efficiently replenish batteries. Moreover, the ET Series is compatible with diverse battery capacities and brands, including the GoodWe Lynx C, offering a comprehensive energy storage solution.

Flexible & Adaptable Applications

- Supports parallel connection in both on- and off-grid modes
- Up to 150% DC input oversizing
- 4 MPPTs, Max. efficiency up to 98.1%

Superb Safety & Reliability

- Optional Type I+II SPD on DC side[1]
- IP66 protection for outdoor installation safety
- AFCI optional[1]

Smart Control & Monitoring

- 110% unbalanced output
- UPS-level switching

Friendly & Thoughtful Design

- Elegant and compact design
- Plug & Play installations

1: Optional functions or devices are purchased separately.

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Technical Data	GW25K-ET-10[*6]	GW30K-ET-10[*6]	GW40K-ET-10	GW50K-ET-10
Battery Input Data				
Battery Type[*4]	Li-Ion			
Nominal Battery Voltage (V)	500			
Battery Voltage Range (V)	200 ~ 800			
Start-up Voltage (V)	200			
Number of Battery Input	1			
Max. Continuous Charging Current (A)	100			
Max. Continuous Discharging Current (A)	100			
Max. Charging Power (W)	27500	33000	44000	55000
Max. Discharging Power (W)	27500	33000	44000	55000
PV String Input Data				
Max. Input Power (W)[*1]	50000	60000	60000	75000
Max. Input Voltage (V)[*3]	1000			
MPPT Operating Voltage Range (V)[*5]	165 ~ 850			
Start-up Voltage (V)	200			
Nominal Input Voltage (V)	620			
Max. Input Current per MPPT (A)	42 / 32 / 42	42 / 32 / 42	42 / 32 / 42	42 / 32 / 42 / 32
Max. Short Circuit Current per MPPT (A)	55 / 42 / 55	55 / 42 / 55	55 / 42 / 55	55 / 42 / 55 / 42
Number of MPP Trackers	3	3	3	4
Number of Strings per MPPT	2			
AC Output Data (On-grid)				
Nominal Output Power (W)	25000	30000	40000	50000
Nominal Apparent Power Output to Utility Grid (VA)	25000	30000	40000	50000
Max. Apparent Power Output to Utility Grid (VA)	25000	30000	40000	50000
Max. Apparent Power from Utility Grid (VA)	25000	30000	40000	50000
Nominal Output Voltage (V)	380 / 400, 3L / N / PE			
Output Voltage Range (V)[*2]	176 ~ 276			
Nominal AC Grid Frequency (Hz)	50 / 60			
AC Grid Frequency Range (Hz)	45 - 55 / 55 - 65			
Max. AC Current Output to Utility Grid (A)	37.9 @ 380V 36.3 @ 400V	45.5 @ 380V 43.6 @ 400V	60.6 @ 380V 58.0 @ 400V	75.8 @ 380V 72.5 @ 400V
Max. AC Current From Utility Grid (A)	37.9 @ 380V 36.3 @ 400V	45.5 @ 380V 43.6 @ 400V	60.6 @ 380V 58.0 @ 400V	75.8 @ 380V 72.5 @ 400V
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%			
AC Output Data (Back-up)*requires additional STS box				
Back-up Nominal Apparent Power (VA)	25000	30000	40000	50000
Max. Output Apparent Power (VA)	27500 (30000 @ 60s, 37500 @ 10s)	33000 (36,000 @ 60s, 45000 @ 10s)	44000 (48000 @ 60sec, 60000 @ 10sec)	55000 (60000 @ 60sec, 75000 @ 10sec)
Max. Output Current (A)	41.7 @ 380V 39.8 @ 400V	50.0 @ 380V 47.8 @ 400V	66.7 @ 380V 63.8 @ 400V	83.3 @ 380V 79.7 @ 400V
Nominal Output Voltage (V)	380 / 400, 3L / N / PE			
Nominal Output Frequency (Hz)	50 / 60			
Output THDv (@Linear Load)	<3%			
Efficiency				
Max. Efficiency	98.1%			
European Efficiency	97.5%			
Max. Battery to AC Efficiency	97.7%			
MPPT Efficiency	99.0%			
Protection				
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 II	Type II (Type I + II Optional)	
AC Surge Protection	Type II			
AFCI	Optional			
Remote Shutdown	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, WLAN + APP			
Communication with BMS	CAN			
Communication with Meter	RS485			
Communication with Portal	RS485, WiFi + LAN + Bluetooth, 4G + Bluetooth (Optional)			
Weight (kg)	62	62	62	65
Dimension (W × H × D mm)	520 × 660 × 260			
Topology	Non-isolated			
Self-consumption at Night (W)	<15			
Ingress Protection Rating	IP66			
Mounting Method	Wall Mounted			

*1: For most of the PV module, the max. Input power can achieve 2*Pn, Such as the max. input power of GW50K-ET can achieve 100kW.
*2: Output Voltage Range: phase voltage.
*3: When the input voltage is greater than 980V, the inverter will enter standby mode, and when the voltage returns to below 970V the inverter will return to normal operation.
*4: The Li-Ion battery usually contain two mainstream type: LFP and Ternary Lithium battery.
*5: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.
*6: Only available in SEA, MENA and other regions, please contact sales for more information.
*: Please visit GoodWe website for the latest certificates.