

Powerful and compact, the GoodWe ET50 hybrid inverter is ideal for Commercial and Industrial (C&I) energy storage solutions. 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. When coupled with the Static Transfer Switch (STS) Box, the system supports dependable UPS-level switching to backup mode. Paired with the GoodWe Lynx C battery system, GoodWe provides a complete energy storage solution.



Parallel connection



Peak shaving and grid support



Powerful back-up with STS box





Technical Data	GW40K-ET-10	GW50K-ET-10	
Battery Input Data			
Battery Type <sup>*4</sup>	l i-	lon	
Nominal Battery Voltage (V)	500		
Battery Voltage Range (V)		200 ~ 800	
Start-up Voltage (V)	20	200	
Number of Battery Input		1	
Max. Continuous Charging Current (A)		100	
Max. Continuous Discharging Current (A)		00	
Max. Charging Power (W) Max. Discharging Power (W)	44000 44000	55000 55000	
PV String Input Data	44000	33000	
	00000	75000	
Max. Input Power (W) <sup>*1</sup> Max. Input Voltage (V) <sup>*3</sup>	60000	75000	
MPPT Operating Voltage Range (V)*5		~ 850	
Start-up Voltage (V)		00	
Nominal Input Voltage (V)		620	
Max. Input Current per MPPT (A)	42 / 32 / 42	42 / 32 / 42 / 32	
Max. Short Circuit Current per MPPT (A)	55 / 42 / 55	55 / 42 / 55 / 42	
Number of MPP Trackers Number of Strings per MPPT	3	4 2	
* *			
AC Output Data (On-grid)*requires additional S		50000	
Nominal Output Power (W)  Nominal Apparent Power Output to Utility Grid (VA)	40000 40000	50000 50000	
Max. Apparent Power Output to Utility Grid (VA)	40000	50000	
Max. Apparent Power from Utility Grid (VA)	4000	50000	
Nominal Output Voltage (V)		3L / N / PE	
Output Voltage Range (V)*1	176 ~ 276		
Nominal AC Grid Frequency (Hz)	50 / 60		
AC Grid Frequency Range (Hz)		/ 55 - 65	
Max. AC Current Output to Utility Grid (A)  Max. AC Current From Utility Grid (A)	60.6 @ 380V; 58.0 @ 400V 60.6 @ 380V: 58.0 @ 400V	75.8 @ 380V; 72.5 @ 400V 75.8 @ 380V; 72.5 @ 400V	
Power Factor		75.8 @ 560V, 72.5 @ 400V B leading to 0.8 lagging)	
Max. Total Harmonic Distortion		3%	
AC Output Data (Back-up)			
Back-up Nominal Apparent Power (VA)	40000	50000	
Max. Output Apparent Power (VA)	44000 (48000 @ 60sec, 60000 @ 10sec)	55000 (60000 @ 60sec, 75000 @ 10s	
Max. Output Current (A)	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 MPPT Efficiency	97.7% 99.0%		
	99.	.0%	
Protection			
Residual Current Monitoring	Integrated		
PV Reverse Polarity Protection  Battery Reverse Polarity Protection	Integrated 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 AFCI	Type II Optional		
Remote Shutdown	Integrated		
General Data	intog	, acou	
	05	.00	
Operating Temperature Range (°C) Relative Humidity	-35 ~ +60 0 ~ 95%		
Max. Operating Altitude (m)	4000		
Cooling Method	Smart Fan Cooling		
User Interface	LED, WLAN + APP		
Communication with BMS	CAN		
Communication with Meter		485	
Communication with Portal	RS485, WiFi + LAN + Bluetooth, 4G + Bluetooth (Optional)		
Weight (kg) Dimension (W × H × D mm)		62 65 520 × 660 × 260	
Jimension (w x n x b mm) Topology		ou x 260 solated	
	<15		
	<	15	
Refrections at Night (W) Ingress Protection Rating		15 66	

<sup>\*1:</sup> 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.

<sup>\*2:</sup> 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.

<sup>\*4:</sup> The Li-lon battery usually contain two mainstream type: LFP and Ternary Lithium battery.

<sup>\*5:</sup> Please refer to the user manual for the MPPT Voltage Range at Nominal Power.
\*: Please visit GoodWe website for the latest certificates.