

Maximising energy back-up for high power PV rooftops

- ✓ Optimised energy autonomy
- ✓ Smart and efficient operations
- ✓ Modern and compact design
- ✓ Highest safety standards

At the forefront of hybrid inverter solutions, GoodWe's ET inverters efficiently meet the needs of powerful solar rooftops to facilitate energy back-up, peak shaving, time of use and load management for optimised autonomy and reduced energy cost. The ET series can be combined with a range of battery capacities and brands, including the GoodWe. Lynx C 60kWh outdoor battery for C&I applications. In combination with GoodWe's communication device EzLink3000 for smart energy management, system expansions are easily attainable through the parallel connection of multiple inverters.



Peak shaving



Parallel connection



Powerful back-up with UPS level switching



Technical Data		GW20K-ET	GW25K-ET	GW29.9K-ET
Battery Input Data				
Battery Type		Li-Ion		
Nominal Battery Voltage (V)		500		
Battery voltage range (V)		200 ~ 800		
Start-up Voltage (V)		200		
Number of Battery Input	1	2	2	
Max. Continuous Charging Current (A)	50	50 × 2	50 × 2	
Max. Continuous Discharging Current (A)	50	50 × 2	50 × 2	
Max. Charging Power (W)	20000	25000	30000	
Max. Discharging Power (W)	20000	25000	30000	
PV String Input Data				
Max. Input Power (W) ¹	30000	37500	45000	
Max. Input Voltage (V) ²		1000		
MPPT Operating Voltage Range (V)		200 ~ 850		
Start-up Voltage (V)		200		
Nominal Input Voltage (V)		620		
Max. Input Current per MPPT (A)		30		
Max. Short Circuit Current per MPPT (A)		38		
Number of MPP Trackers	2	3	3	
Number of Strings per MPPT	2 / 2	2 / 2 / 2	2 / 2 / 2	
AC Output Data (On-grid)				
Nominal Output Power (W)	20000	25000	29900	
Nominal Apparent Power Output to Utility Grid (VA)	20000	25000	29900	
Max. Apparent Power Output to Utility Grid (VA) ³⁻¹⁰	22000	27500	29900	
Max. Apparent Power from Utility Grid (VA) ⁸	20000	25000	30000	
Nominal Output Voltage (V)		380 / 400, 3L / N / PE		
Output Voltage Range (V) ⁴		0 ~ 300		
Nominal AC Grid Frequency (Hz)		50 / 60		
AC Grid Frequency Range (Hz)		45 ~ 65		
Max. AC Current Output to Utility Grid (A) ⁷	31.9	39.9	43.3	
Max. AC Current From Utility Grid (A) ⁹	30.3	37.9	45.3	
Power Factor		~ 1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion		≤3.05%		
AC Output Data (Back-up)				
Back-up Nominal Apparent Power (VA)	20000	25000	29900	
Max. Output Apparent Power without Grid (VA) ⁵	20000 (24000@60s, 32000@3s)	25000 (30000@60s)	30000 (36000@60s)	
Max. Output Apparent Power with Grid (VA)	20000	25000	29900	
Max. Output Current (A)	30.3 (36.4@60s, 48.5@3s)	37.9 (45.5@60s)	45.5 (54.5@60s)	
Nominal Output Voltage (V)		380 / 400		
Nominal Output Frequency (Hz)		50 / 60		
Output THDv (@Linear Load)		<3%		
Efficiency				
Max. Efficiency		98.0%		
European Efficiency		97.5%		
Max. Battery to AC Efficiency		97.5%		
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		
AC Surge Protection		Type III		
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		RS485 / CAN		
Communication with Meter		RS485		
Communication with Portal		WiFi + LAN + Bluetooth		
Weight (kg)	48	54	54	
Dimension (W × H × D mm)		520 × 660 × 220		
Topology		Non-isolated		
Self-consumption at Night (W) ⁶		<15		
Ingress Protection Rating		IP66		
Mounting Method		Wall Mounted		

1: Max. Input Power, not continuous for 1.5 normal power.

*2: For 1000V system, Maximum operating voltage is 950V.

*3: According to the local grid regulation.

*4: Output Voltage Range: phase voltage.

*5: Can be reached only if PV and battery power is enough.

*6: No Back-up Output.

*7: For 380V grid, the Max. AC Current Output to Utility Grid is 33.3A for GW20K-ET, 41.7A for GW25K-ET, 49.8A for GW29.9K-ET.

*8: When the load is connected to the inverter's backup port, the Max. Apparent Power from Utility Grid can reach to 30K for GW20K-ET, 33K for GW25K-ET and 33K for GW29.9K-ET respectively.

*9: When the load is connected to the inverter's backup port, the Max. AC Current From Utility Grid can reach to 45A for GW20K-ET, 50A for GW25K-ET and 50A for GW29.9K-ET respectively.

*10: For Austria, Max. Output Power (W) is 20K for GW20K-ET, 25K for GW25K-ET, 29.9K for GW29.9K-ET.

*: Please visit GoodWe website for the latest certificates.