

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

ET Series Hybrid Inverter I 20 - 30kW I Up to 3 MPPTs I Three Phase I HV **EMEA**

ET 20-30kW Series

GOODWE

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 Freqency (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.

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