




## 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	GW15K-ET	GW20K-ET	GW25K-ET	GW29.9K-ET
<b>Battery Input Data</b>				
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	1	2	2
Max. Continuous Charging Current (A)	50	50	50 x 2	50 x 2
Max. Continuous Discharging Current (A)	50	50	50 x 2	50 x 2
Max. Charging Power (W)	15000	20000	25000	30000
Max. Discharging Power (W)	15000	20000	25000	30000
<b>PV String Input Data</b>				
Max. Input Power (W) <sup>1</sup>	22500	30000	37500	45000
Max. Input Voltage (V) <sup>2</sup>				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	2	3	3
Number of Strings per MPPT	2 / 2	2 / 2	2 / 2 / 2	2 / 2 / 2
<b>AC Output Data (On-grid)</b>				
Nominal Output Power (W)	15000	20000	25000	29900
Nominal Apparent Power Output to Utility Grid (VA)	15000	20000	25000	29900
Max. Apparent Power Output to Utility Grid (VA) <sup>3*10</sup>	16500	22000	27500	29900
Max. Apparent Power from Utility Grid (VA) <sup>8</sup>	15000	20000	25000	30000
Nominal Output Voltage (V)				380 / 400, 3L / N / PE
Output Voltage Range (V) <sup>4</sup>				0 ~ 300
Nominal AC Grid Frequency (Hz)				50 / 60
AC Grid Frequency Range (Hz)				45 ~ 65
Max. AC Current Output to Utility Grid (A) <sup>7</sup>	23.9	31.9	39.9	43.3
Max. AC Current From Utility Grid (A) <sup>9</sup>	21.7	29.0	36.2	43.3
Power Factor				~1 (Adjustable from 0.8 leading to 0.8 lagging)
Max. Total Harmonic Distortion				≤3.05%
<b>AC Output Data (Back-up)</b>				
Back-up Nominal Apparent Power (VA)	15000	20000	25000	29900
Max. Output Apparent Power without Grid (VA) <sup>5</sup>	15000 (18000@60s, 24000@3s)	20000 (24000@60s, 32000@3s)	25000 (30000@60s)	30000 (36000@60s)
Max. Output Apparent Power with Grid (VA)	15000	20000	25000	29900
Max. Output Current (A)	22.7 (27.3@60s, 36.4@3s)	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%
<b>Efficiency</b>				
Max. Efficiency				98.0%
European Efficiency				97.5%
Max. Battery to AC Efficiency				97.5%
MPPT Efficiency				99.9%
<b>Protection</b>				
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
<b>General Data</b>				
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	48	54	54
Dimension (W x H x D mm)				520 x 660 x 220
Topology				Non-isolated
Self-consumption at Night (W) <sup>6</sup>				<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 25.0A for GW15K-ET, 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 22.5K for GW15K-ET, 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 34A for GW15K-ET, 45A for GW20K-ET, 50A for GW25K-ET and 50A for GW29.9K-ET respectively.

\*10: For Austria, Max. Output Power (W) is 15K for GW15K-ET, 20K for GW20K-ET, 25K for GW25K-ET, 29.9K for GW29.9K-ET.

\*: Please visit GoodWe website for the latest certificates.