

The trend of increasing PV module yield is influencing overall PV system requirements. At the forefront of development, GoodWe's ET inverters efficiently meet the needs of powerful solar rooftops to facilitate energy back-up, peak shaving 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 Home F.



Peak shaving



UPS level switching <10ms



Powerful back-up overload





Technical Data	GW15K-ET	GW20K-ET	GW25K-ET	GW29.9K-ET
Battery Input Data				
Battery Type		Li-	lon	
Nominal Battery Voltage (V)	500			
Battery voltage range (V) Start-up Voltage (V)	200 ~ 800 180			
Number of Battery Input	1	1	2	2
Max. Continuous Charging Current (A)	50	50	50 × 2	50 × 2
Max. Continuous Discharging Current (A)	50	50	50 × 2	50 × 2
Max. Charging Power (W) Max. Discharging Power (W)	15000 15000	20000	<u>25000</u> 25000	30000 30000
	13000	20000	23000	30000
PV String Input Data				
Max. Input Power (W)*1 Max. Input Voltage (V)*2	22500	30000	37500	45000
MPPT Operating Voltage Range (V)	1000 200 ~ 850			
Start-up Voltage (V)	200			
Nominal Input Voltage (V)	620			
Max. Input Current per MPPT (A) Max. Short Circuit Current per MPPT (A)			<u>80</u> 88	
Number of MPP Trackers	2	2	3	3
Number of Strings per MPPT	2/2	2/2	2/2/2	2/2/2
AC Output Data (On-grid)				
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)*3	16500	22000	27500	29900
Max. Apparent Power from Utility Grid (VA)*8	15000	20000	25000	30000
Nominal Output Voltage (V) Output Voltage Range (V) 4	380 / 400, 3L / N / PE 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	23.9	31.9	39.9	43.3
Max. AC Current From Utility Grid (A) ⁻⁹ Power Factor	21.7	29.0 ~1 (Adjustable from 0.8	36.2 3 leading to 0.8 lagging)	43.3
Max. Total Harmonic Distortion			3%	
AC Output Data (Back-up)				
Back-up Nominal Apparent Power (VA)	15000	20000	25000	29900
Max. Output Apparent Power without Grid (VA)*5) 20000 (24000@60s, 32000@3s)	25000 (30000@60s)	30000 (36000@60
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) / 400	45.5 (54.5@60s
Nominal Output Voltage (V) Nominal Output Fregency (Hz)			/ 400 / 60	
Output THDv (@Linear Load)			3%	
Efficiency				
Max. Efficiency	98.0%			
European Efficiency	97.5%			
Max. Battery to AC Efficiency	97.5% 99.9%			
MPPT Efficiency		99	.9%	
Protection				
PV String Current Monitoring	Integrated			
PV Insulation Resistance Detection	Integrated			
Residual Current Monitoring PV Reverse Polarity Protection	Integrated Integrated			
Battery Reverse Polarity Protection	Integrated			
Anti-islanding Protection	Integrated			
AC Overcurrent Protection AC Short Circuit Protection	Integrated Integrated			
AC Short Circuit Protection AC Overvoltage Protection	Integrated Integrated			
DC Switch	Integrated			
DC Surge Protection		Туг	pe II	
AC Surge Protection			e III	
AFCI Remote Shutdown	Optional Integrated			
General Data		mioç	y w	
Operating Temperature Range (°C)		-3E	× +60	
Relative Humidity			95%	
Max. Operating Áltitude (m)	4000 Smoot Fan Cooling			
Cooling Method			n Cooling	
User Interface Communication with BMS			AN + APP 5 / CAN	
Communication with Meter			485	
Communication with Portal		WiF	/ 4G	
Weight (kg)	48	48	54	54
Dimension (W × H × D mm)	. AF	520 × 6 <45	60 × 220 <45	<60
Noise Emission (dR)			<40	<00
Noise Emission (dB) Topology	<45		solated	
Topology Self-consumption at Night (W) ^{r6}	<45	Non-i	solated 15	
Noise Emission (dB) Topology Self-consumption at Night (W) ^{*6} Ingress Protection Rating Mounting Method	<45	Non-i: < IF		

^{*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.

^{*:} Please visit GoodWe website for the latest certificates.