GOODWE

ET Series

15-30kW I Three Phase
Up to 3 MPPTs I Hybrid Inverter (HV)

GoodWe ET 15-30kW Series inverter is ideal for large residential or small commercial and industrial applications. As the core of the energy storage solution, the high-voltage inverters facilitate powerful energy backup and load management for optimized autonomy and reduced energy cost. The ET inverters also present peak shaving that balances power demand and grid power imported, to effectively reduce extra grid demand. Furthermore, thanks to dry contact in the inverter, external loads such as heat pumps can also be flexibly activated to optimize energy consumption. The series can be combined with a range of battery capacities and brands, including the GoodWe Lynx Home F.



Smart Control & Monitoring

· Integrated dry contact for external loads
· Peak shaving

Friendly & Thoughtful Design

· Elegant and compact design
· Plug & Play installations

Superb Safety & Reliability

· Type II SPD on DC side
· AFCI optional[1]

Flexible & Adaptable Applications

· Max. 15A DC input current per string
· Up to 150% DC input oversizing

1: Optional functions or devices are purchased separately.

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Technical Data	GW15K-ET	GW20K-ET	GW25K-ET	GW29.9K-ET	GW30K-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	1	2	2	2
Max. Continuous Charging Current (A)	50	50	50 × 2	50 × 2	50 × 2
Max. Continuous Discharging Current (A)	50	50	50 × 2	50 × 2	50 × 2
Max. Charging Power (W)	15000	20000	25000	30000	30000
Max. Discharging Power (W)	15000	20000	25000	30000	30000
PV String Input Data					
Max. Input Power (W)*1	22500	30000	37500	45000	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	2	3	3	3
Number of Strings per MPPT	2 / 2	2 / 2	2 / 2 / 2	2 / 2 / 2	2 / 2 / 2
AC Output Data (On-grid)					
Nominal Output Power (W)	15000	20000	25000	29900	30000
Nominal Apparent Power Output to Utility Grid (VA)	15000	20000	25000	29900	30000
Max. Apparent Power Output to Utility Grid (VA)*3*11	16500	22000	27500	29900	33000
Max. Apparent Power from Utility Grid (VA)*9	15000	20000	25000	30000	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)*8	23.9	31.9	39.9	43.3	47.8
Max. AC Current From Utility Grid (A)*10	21.7	29.0	36.2	43.3	43.5
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)	15000	20000	25000	29900	30000
Max. Output Apparent Power without Grid (VA)*5	15000 (18000@60s, 24000@3s)	20000 (24000@60s, 32000@3s)	25000 (30000@60s)	30000 (36000@60s)	30000 (36000@60s)
Max. Output Apparent Power with Grid (VA)	15000	20000	25000	29900	30000
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)	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*6			Integrated		
DC Surge Protection			Type II		
AC Surge Protection			Type III		
AFCI			Optional		
Rapid Shutdown			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	48	54	54	54
Dimension (W × H × D mm)			520 × 660 × 220		
Noise Emission (dB)	<45	<45	<45	<60	<60
Topology			Non-isolated		
Self-consumption at Night (W)*7			<15		
Ingress Protection Rating			IP66		
Mounting Method			Wall Mounted		

*1: In Australia, for most of the PV module, the max.Input power can achieve 2*Pn, Such as the max.input power of GW15K-ET can achieve 30000W. Besides, 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: DC Switch: GHX6-55P (for Australia).
*7: No Back-up Output.
*8: 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, 50.0A for GW30K-ET.
*9: 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, 33K for GW29.9K-ET, and 33K for GW30K-ET respectively.
*10: 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, 50A for GW29.9K-ET, and 50A for GW30K-ET respectively.
*11: 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, and 30K for GW30K-ET.
*: For 380V grid, the Nominal Output Current is 22.7A for GW15K-ET, 30.3A for GW20K-ET, 37.9A for GW25K-ET, 45.3A for GW29.9K-ET, 45.5A for GW30K-ET.
*: Please visit GoodWe website for the latest certificates.
*: All pictures shown are for reference only. Actual appearance may vary.

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