

ET Series

15-29.9 kW | Three phase
Up to 3 MPPTs | Hybrid Inverter (HV)

The GoodWe ET 15kW-29.9kW Series inverter is ideal for residential, small to medium commercial and industrial applications. As the core of an energy storage solution, the ET inverter massively lowers energy costs by efficiently storing the solar power for flexible use and increasing self-consumption. Peak shaving balances power demand and grid power imported, to effectively reduce extra grid demand for the most cost-effective use for your property. When paired with the GoodWe Home F Series battery, this offers a one-stop shop solution for Three Phase systems. This series is available in 15kW, 20kW, 25kW and 29.9kW models.



Smart Control & Monitoring

- Integrated dry contact for external loads
- PV string current monitoring



Friendly & Thoughtful Design

- One-stop shop solution
- Outstanding compatibility with batteries



Superb Safety & Reliability

- AFCI optional¹
- Surge protections optional¹



Flexible & Adaptable Applications

- Peak shaving
- Up to 160% AC output backup overloading²

Technical Data	GW15K-ET	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	
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)	15000	20000	12500 × 2	15000 × 2
Max. Discharging Power (W)	15000	20000	12500 × 2	15000 × 2
PV String Input Data				
Max. Input Power (W) ^{*1}	22500	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	2	3	3
Number of Strings per MPPT	2 / 2	2 / 2	2 / 2 / 2	2 / 2 / 2
AC Output Data (On-grid)				
Nominal Apparent Power Output to Utility Grid (VA)	15000	20000	25000	29900
Max. Apparent Power Output to Utility Grid (VA)	16500	22000	27500	29900
Max. Apparent Power from Utility Grid (VA)	22500	30000	33000	33000
Nominal Output Voltage (V)			380 / 400, 3L / N / PE	
Output Voltage Range (V) ^{*3}			0 ~ 300	
Nominal AC Grid Frequency (Hz)			50 / 60	
Max. AC Current Output to Utility Grid (A) ^{*7}	25.0	33.3	41.7	49.8
Max. AC Current From Utility Grid (A)	34.0	45.0	50.0	50.0
Nominal Output Current (A) ^{*4}	22.7	30.3	37.9	45.3
Power Factor	~1 (Adjustable from 0.8 leading~0.8 lagging)			
Max. Total Harmonic Distortion	<3%			
AC Output Data (Back-up)				
Back-up Nominal Apparent Power (VA)	15000	20000	25000	29900
Max. Output Apparent Power (VA) ^{*5}	15000 (18000@60s, 24000@3s)	20000 (24000@60s, 32000@3s)	25000 (30000@60s)	30000 (36000@60s)
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%	
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			GHX6-55P	
DC Surge Protection			Type II	
AC Surge Protection			Type III	
AFCI			Optional	
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 / 4G	
Weight (kg)	48	48	54	54
Dimension (W × H × D mm)			520 × 660 × 220	
Noise Emission (dB)	<45	<45	<45	<60
Topology			Non-isolated	
Self-consumption at Night (W) ^{*6}			<15	
Ingress Protection Rating			IP66	
Overvoltage Category			DC II / AC III	
Protective Class			I	
Mounting Method			Wall Mounted	
Country of Manufacture			China	

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

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

*3: Output Voltage Range: phase voltage.

*4: For 400V grid, the Nominal Output Current is 21.7A for GW15K-ET, 29.0A for GW20K-ET, 36.2A for GW25K-ET, 43.3A for GW29.9K-ET.

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

*6: No Back-up Output.

*7: For 400V grid, the Max. AC Current Output to Utility Grid is 23.9A for GW15K-ET, 31.9A for GW20K-ET, 39.9A for GW25K-ET, 43.3A for GW29.9K-ET.

*: Please visit GoodWe website for the latest certificates.

*: All pictures shown are for reference only. Actual appearance may vary.