GOODWE

ET Series

15-29.9 kW I Three phase I 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
· 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 200% DC input oversizing

1: Optional functions or devices are purchased separately.

ET 15-29.9kW Series

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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			
Start-up Voltage (V)	200			
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)	15000	20000	25000	30000
Max. Discharging Power (W)	15000	20000	25000	30000
PV String Input Data				
Max. Input Power (W)*1	30000	40000	50000	59800
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 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*9	16500	22000	27500	29900
Max. Apparent Power from Utility Grid (VA)*7	15000	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)	23.9	31.9	39.9	43.3
Max. AC Current From Utility Grid (A)*8	21.7	29.0	36.2	43.3
Nominal Output Current (A)	22.7	30.3	37.9	45.3
Power Factor	~1 (Adjustable from 0.8 leading~0.8 lagging)			
Max. Total Harmonic Distortion	≤3.05%			
AC Output Data (Back-up)				
Back-up Nominal Apparent Power (VA)	15000	20000	25000	29900
Max. Output Apparent Power without Grid (VA)*5	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 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	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 + LAN + Bluetooth			
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: 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: 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.
*8: 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.
*9: 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.
*: Please visit GoodWe website for the latest certificates.
*: All pictures shown are for reference only. Actual appearance may vary.
**: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.