

# ET Series

15-30kW | Three Phase  
Up to 3 MPPTs | 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<sup>1</sup>



## Flexible & Adaptable Applications

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

Technical Data	GW15K-ET	GW20K-ET	GW25K-ET	GW29.9K-ET	GW30K-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	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
<b>PV String Input Data</b>					
Max. Input Power (W) <sup>1</sup>	22500	30000	37500	45000	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	3
Number of Strings per MPPT	2/2	2/2	2/2/2	2/2/2	2/2/2
<b>AC Output Data (On-grid)</b>					
Nominal Output Power (W)	15000	20000	25000	29900	30000
Nominal Apparent Power Output to Utility Grid (VA)	15000	20000	25000	29900	30000
Max. Apparent Power Output to Utility Grid (VA) <sup>3/11</sup>	16500	22000	27500	29900	33000
Max. Apparent Power from Utility Grid (VA) <sup>9</sup>	15000	20000	25000	30000	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>8</sup>	23.9	31.9	39.9	43.3	47.8
Max. AC Current From Utility Grid (A) <sup>10</sup>	22.7	30.3	37.9	45.3	45.5
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	30000
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)	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 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 <sup>6</sup>		Integrated			
DC Surge Protection		Type II			
AC Surge Protection		Type III			
AFCI		Optional			
Rapid Shutdown		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	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) <sup>7</sup>		<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 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.