

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 optional¹



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
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 x 2	50 x 2	50 x 2
Max. Continuous Discharging Current (A)	50	50	50 x 2	50 x 2	50 x 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 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 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 x H x D mm)	520 x 660 x 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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