GOODWE

Maximising energy back-up for high-power PV rooftops

- Optimised energy autonomy
- Smart and efficient operations
- Modern and compact design
- Highest safety standards

The trend of increasing PV module yield is influencing overall PV system requirements. At the forefront of development, GoodWe's ET inverters efficiently meet the needs of powerful solar rooftops to facilitate energy back-up, peak shaving and load management for optimised autonomy and reduced energy cost. The ET series can be combined with a range of battery capacities and brands, including the GoodWe Lynx Home F.

- Peak shaving
- UPS level switching <10ms
- Powerful back-up overload

ET Series Hybrid Inverter I 15 – 30kW I Up to 3 MPPTs I Three Phase I HV **EMEA**

ET 15-30kW Series

GOODWE

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)	180			
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	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 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*10	16500	22000	27500	29900
Max. Apparent Power from Utility Grid (VA)*8	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)*7	23.9	31.9	39.9	43.3
Max. AC Current From Utility Grid (A)*9	21.7	29.0	36.2	43.3
Power Factor	~1 (Adjustable from 0.8 leading to 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 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	Integrated			
DC Surge Protection	Type II			
AC Surge Protection	Type III			
AFCI	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 / 4G			
Weight (kg)	48	48	54	54
Dimension (W × H × D mm)	520 × 660 × 220			
Topology	Non-isolated			
Self-consumption at Night (W)*6	<15			
Ingress Protection Rating	IP66			
Mounting Method	Wall Mounted			

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: 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.
*8: 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 and 33K for GW29.9K-ET respectively.
*9: 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 and 50A for GW29.9K-ET respectively.
*10: 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.

This datasheet provides information about products offered in the EMEA region.