

GOODWE

ET Series

5-10kW | Three Phase | Hybrid Inverter

The GoodWe ET series is a Three-Phase, high-voltage, energy storage inverter that provides enhanced energy independence and maximises self-consumption for reduced electricity bills, through an export limit feature and time-of-use shifts. Covering a power range of 5 kW to 10 kW, the ET series allows up to 110% overloading to maximize power output and features Uninterruptible Power Supply (UPS) to critical loads, such as air conditioners or refrigerators within 10 milliseconds. With UPS-level switching, the ET can provide savings when connected to the grid, or off-grid independence and security when the grid is down.



98.2% maximum system efficiency



Wide battery voltage from 180 to 600V



100% unbalanced output



<10ms UPS-level switching

Technical Data	GW5KL-ET	GW6KL-ET	GW8KL-ET	GW10KL-ET
Battery Input Data				
Battery Type			Li-Ion	
Nominal Battery Voltage (V)			500	
Battery Voltage Range (V)			180 ~ 600	
Start-up Voltage (V)			180	
Number of Battery Input			1	
Max. Continuous Charging Current (A)			25	
Max. Continuous Discharging Current (A)			25	
Max. Charging Power (W)	7500	7800	9600	10000
Max. Discharging Power (W)	7500	7800	9600	10000
PV String Input Data				
Max. Input Power (W)	6650	7980	10640	13300
Max. Input Voltage (V)*1			1000	
MPPT Operating Voltage Range (V)*2/**			200 ~ 850	
Start-up Voltage (V)			180	
Nominal Input Voltage (V)			620	
Max. Input Current per MPPT (A)	12.5	12.5	12.5 / 22.0	12.5 / 22.0
Max. Short Circuit Current per MPPT (A)	15.2	15.2	15.2 / 27.6	15.2 / 27.6
Number of MPP Trackers		2		
Number of Strings per MPPT	1	1	1 / 2	1 / 2
AC Output Data (On-grid)				
Nominal Output Power (W)	5000	6000	8000	10000
Nominal Apparent Power Output to Utility Grid (VA)	5000	6000	8000	10000
Max. Apparent Power Output to Utility Grid (VA)*2,4,7	5500	6600	8800	11000
Max. Apparent Power from Utility Grid (VA)	10000	12000	15000	15000
Nominal Output Voltage (V)			400 / 380, 3L / N / PE	
Output Voltage Range (V)			0 ~ 300	
Nominal AC Grid Frequency (Hz)			50 / 60	
AC Grid Frequency Range (Hz)			45 ~ 65	
Max. AC Current Output to Utility Grid (A)	8.5	10.5	13.5	16.5
Max. AC Current From Utility Grid (A)	15.2	18.2	22.7	22.7
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)	5000	6000	8000	10000
Max. Output Apparent Power without Grid (VA)*3	5000 (10000@60sec)	6000 (12000@60sec)	8000 (16000@60sec)	10000 (16500@60sec)
Max. Output Apparent Power with Grid (VA)*3	5000	6000	8000	10000
Nominal Output Current (A)	7.5	9.0	12.0	14.5
Max. Output Current (A)	8.5	10.5	13.5	16.5
Nominal Output Voltage (V)			400 / 380	
Nominal Output Frequency (Hz)			50 / 60	
Output THDv (@Linear Load)			<3%	
Efficiency				
Max. Efficiency			97.6%	
European Efficiency			96.8%	
Max. Battery to AC Efficiency			97.5%	
MPPT Efficiency			99.9%	
Protection				
PV Insulation Resistance Detection			Integrated	
Residual Current Monitoring			Integrated	
PV Reverse Polarity Protection			Integrated	
Anti-islanding Protection			Integrated	
AC Overcurrent Protection			Integrated	
AC Short Circuit Protection			Integrated	
AC Overvoltage Protection			Integrated	
DC Switch			Optional	
DC Surge Protection			Type III	
AC Surge Protection			Type III	
Remote Shutdown			Integrated	
General Data				
Operating Temperature Range (°C)			-35 ~ +60	
Relative Humidity			0 ~ 95%	
Max. Operating Altitude (m)			4000	
Cooling Method			Natural Convection	
User Interface			LED, APP	
Communication with BMS*5			RS485, CAN	
Communication with Meter			RS485	
Communication with Portal			WiFi / WiFi+LAN (Optional) / 4G (Optional)	
Weight (kg)	24	24	25	25
Dimension (W x H x D mm)			415 x 516 x 180	
Topology			Non-isolated	
Self-consumption at Night (W)*6			<15	
Ingress Protection Rating			IP66	
Overvoltage Category			DC II / AC III	
Mounting Method			Wall Mounted	
Country of Manufacture			China	

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

*2: According to the local grid regulation.

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

*4: For Chile Max. Apparent Power Output to Utility Grid (VA) and Max. Output Power (W): GW5KL(N)-ET is 5000; GW6KL-ET is 6000; GW6.5KN-ET is 6500; GW8KL(N)-ET is 8000; GW10KL(N)-ET is 10000.

*5: CAN communication is configured default. If RS485 communication is used, please replace the corresponding communication line.

*6: No Back-up Output.

*7: For Austria, Max. Output Power (W): GW5KL-ET is 5000; GW6KL-ET is 6000; GW8KL-ET is 8000; GW10KL-ET is 10000.

*: Please visit GoodWe website for the latest certificates.

** : Please refer to the user manual for the MPPT Voltage Range at Nominal Power.