GOODWE

ET Series

5-10kW I 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

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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 × H × D mm)	415 × 516 × 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.