



**GOODWE**  
YOUR SOLAR ENGINE



# Declare Your Grid Independence

## ET Series

Three-phase Energy Storage Inverter

5.0kW

8.0kW

10kW

The brand new GoodWe ET Series is a three-phase high voltage energy storage inverter that enables enhanced energy independence and maximizes self-consumption through export limit feature and time of use shifts for reduced electric bills. Covering a power range of 5 kW, 8 kW and 10 kW, the ET Series allows up to 100% overloading to maximize power output and features Uninterruptible Power Supply (UPS) to inductive loads such as air conditioners or refrigerators with an automatic switchover time of less than 10 milliseconds, providing grid-tied savings when the grid is up and off-grid independence and security when it is down or compromised.

UPS

Uninterruptible Power Supply



Maximum Efficiency up to 98.3%



Compact Size & Light Weight



Fanless Design, Quiet Operation



Wide Battery Voltage Range

## Technical Data

### GW5K-ET

### GW8K-ET

### GW10K-ET

	GW5K-ET	GW8K-ET	GW10K-ET	
<b>Battery Input Data</b>	Battery Type	Li-Ion	Li-Ion	Li-Ion
	Battery Voltage Range (V)	180~600	180~600	180~600
	Max. Charging Current (A)	25	25	25
	Max. Discharging Current (A)	25	25	25
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS	Self-adaption to BMS	Self-adaption to BMS
<b>PV String Input Data</b>	Max. DC Input Power (W)	6500	9600	13000
	Max. DC Input Voltage (V)*	1000	1000	1000
	MPPT Range (V)	200~850	200~850	200~850
	Start-up Voltage (V)	180	180	180
	MPPT Range for Full Load (V)	240~850	380~850	460~850
	Nominal DC Input Voltage (V)	620	620	620
	Max. Input Current (A)	12.5/12.5	12.5/12.5	12.5/12.5
	Max. Short Current (A)	15.2/15.2	15.2/15.2	15.2/15.2
	No. of MPP Trackers	2	2	2
	No. of Strings per MPP Tracker	1/1	1/1	1/1
<b>AC Output Data (On-grid)</b>	Nominal Apparent Power Output to Utility Grid (VA)	5000	8000	10000
	Max. Apparent Power Output to Utility Grid (VA)**	5500	8800	11000
	Max. Apparent Power from Utility Grid (VA)	10000	15000	15000
	Nominal Output Voltage (V)	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE
	Nominal Output Frequency (Hz)	50/60	50/60	50/60
	Max. AC Current Output to Utility Grid (A)	8.5	13.5	16.5
	Max. AC Current From Utility Grid (A)	15.2	22.7	22.7
	Output Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)	
	Output THDi (@Nominal Output)	<3%	<3%	<3%
<b>AC Output Data (Back-up)</b>	Max. Output Apparent Power (VA)	5000	8000	10000
	Peak Output Apparent Power (VA)***	10000, 60sec	16000, 60sec	16500, 60sec
	Max. Output Current (A)	8.5	13.5	16.5
	Nominal Output Voltage (V)	400/380	400/380	400/380
	Nominal Output Frequency (Hz)	50/60	50/60	50/60
	Output THDv (@Linear Load)	<3%	<3%	<3%
<b>Efficiency</b>	Max. Efficiency	98.0%	98.2%	98.2%
	Max. Battery to Load Efficiency	97.5%	97.5%	97.5%
	Euro Efficiency	97.2%	97.5%	97.5%
	MPPT Efficiency	99.9%	99.9%	99.9%
<b>Protection</b>	Anti-islanding Protection	Integrated	Integrated	Integrated
	PV String Input Reverse Polarity Protection	Integrated	Integrated	Integrated
	Insulation Resistor Detection	Integrated	Integrated	Integrated
	Residual Current Monitoring Unit	Integrated	Integrated	Integrated
	Output Over Current Protection	Integrated	Integrated	Integrated
	Output Short Protection	Integrated	Integrated	Integrated
	Battery Input Reverse Polarity Protection	Integrated	Integrated	Integrated
	Output Over Voltage Protection	Integrated	Integrated	Integrated
<b>General Data</b>	Operating Temperature Range (°C)	-35~60	-35~60	-35~60
	Relative Humidity	0~95%	0~95%	0~95%
	Operating Altitude (m)	≤4000	≤4000	≤4000
	Cooling	Nature Convection	Nature Convection	Nature Convection
	Noise (dB)	<30	<30	<30
	User Interface	LED & APP	LED & APP	LED & APP
	Communication with BMS	RS485; CAN	RS485; CAN	RS485; CAN
	Communication with Meter	RS485	RS485	RS485
	Communication with EMS	RS485 (Insulated)	RS485 (Insulated)	RS485 (Insulated)
	Communication with Portal	Wi-Fi	Wi-Fi	Wi-Fi
	Weight (kg)	24	24	24
	Size (Width*Height*Depth mm)	516*415*180	516*415*180	516*415*180
	Mounting	Wall Bracket	Wall Bracket	Wall Bracket
	Protection Degree	IP65	IP65	IP65
	Standby Self Consumption (W)****	<15	<15	<15
	Topology	Transformerless	Transformerless	Transformerless
<b>Certifications &amp; Standards</b>	Grid Regulation	CEI 0-21; VDE4105-AR-N; VDE0126-1-1; EN50438; G83/2; G100		
	Safety Regulation	IEC62109-1&2, IEC62040-1		
	EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29		

\*: Maximum operating voltage is 950V.

\*\* : According to local grid regulation.

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

\*\*\*\*: No Back-up output.