


GOODWE
 YOUR SOLAR ENGINE

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 5kW, 8kW and 10kW, 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.



Battery Input Data

Product Code	GW5K-ET	GW8K-ET	GW10K-ET
Battery Type	Li-Ion	Li-Ion	Li-Ion
Battery Voltage Range	180 ~ 600V	180 ~ 600V	180 ~ 600V
Max. Charging Current	2A	25A	25A
Max. Discharging Current	25A	25A	25A
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	Self-adaption to BMS	Self-adaption to BMS

PV String Input Data

Max. DC Input Power	6500W	9600W	13000W
Max. DC Input Voltage*1	1000V	1000V	1000V
MPPT Range	200 ~ 850V	200 ~ 850V	200 ~ 850V
Start-up Voltage	180V	180V	180V
MPPT Range for Full Load	240 ~ 850V	380 ~ 850V	460 ~ 850V
Nominal DC Input Voltage	620V	620V	620V
Max. Input Current	12,5 / 12,5A	12,5 / 12,5A	12,5 / 12,5A
Max. Short Current	15,2 / 15,2A	15,2 / 15,2A	15,2 / 15,2A
No. of MPP Trackers	2	2	2
No. of Strings per MPP Tracker	1/1	1/1	1/1

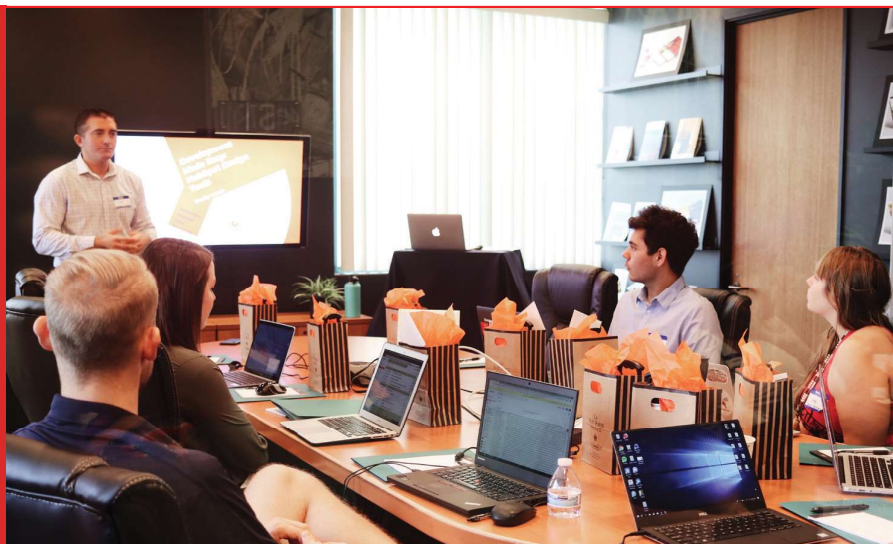
AC Output Data (On-grid)

Nominal Apparent Power Output to Utility Grid	5000VA	8000VA	10000VA
Max. Apparent Power Output to Utility Grid *2	5500VA	8800VA	11000VA
Max. Apparent Power from Utility Grid	10000VA	15000VA	15000VA
Nominal Output Voltage (V)	400 / 380, 3L / N / PE	400 / 380, 3L / N / PE	400 / 380, 3L / N / PE
Nominal Output Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Max. AC Current Output to Utility Grid	8,5A	13,5A	16,5A
Max. AC Current From Utility Grid	15,2A	22,7A	22,7A
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%

AC Output Data (Back-up)

Max. Output Apparent Power	5000VA	8000VA	10000VA
Peak Output Apparent Power*3	10000VA, 60sec	16000VA, 60sec	16500VA, 60sec
Max. Output Current	8,5A	13,5A	16,5A
Nominal Output Voltage	400 / 380V	400 / 380V	400 / 380V
Nominal Output Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Output THDv (@Linear Load)	<3%	<3%	<3%

- Uninterruptible Power Supply
- Maximum Efficiency up to 98.3%
- Compact Size & Light Weight
- Fanless Design, Quiet Operation
- Wide Battery Voltage Range
- Monitoring via App and PC



Efficiency

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%

Protection

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

General Data

Operating Temperature Range	-35 ~ 60 °C	-35 ~ 60 °C	-35 ~ 60 °C
Relative Humidity	0 ~ 95%	0 ~ 95%	0 ~ 95%
Operating Altitude	≤4000m	≤4000m	≤4000m
Cooling	Nature Convection	Nature Convection	Nature Convection
Noise	<30 dB	<30 dB	<30 dB
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	24kg	24kg	24kg
Size (Width x Height x Depth)	516 x 415 x 180mm	516 x 415 x 180mm	516 x 415 x 180mm
Mounting	Wall Bracket	Wall Bracket	Wall Bracket
Protection Degree	IP65	IP65	IP65
Standby Self Consumption *4	<15W	<15W	<15W
Topology	Transformerless	Transformerless	Transformerless

*1: Maximum operating voltage is 950V.

*2: According to local grid regulation.

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

*4: No Back-up output.