GOODWE

ET Series

5-10kW I Three Phase HV Hybrid Inverter

The GoodWe ET series is a three-phase high voltage energy storage inverter that enables enhanced energy independence and maximizes self-consumption through an export limit feature and time of use shifts for reduced electricity bills. Covering a power range of 5kW to 10kW, the ET series allows up to 110% 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, the inverter can provide grid-tied savings when the grid is up and off-grid independence and security when it is down or compromised.





98.2% Maximum System Efficiency



8 ms UPS-level Switching



[4]



Technical Data	GW5K-ET	GW6.5K-ET	GW8K-ET	GW10K-ET
Battery Input Data				
Battery Type	Li-lon	Li-lon	Li-lon	Li-lon
Battery Voltage Range (V)	180~600	180~600	180~600	180~600
Max. Charging Current (A)	25	25	25	25
Max. Discharging Current (A)	25	25	25	25
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	Self-adaption to BMS	Self-adaption to BMS	Self-adaption to B
PV String Input Data	con adaption to bivio	Con adaption to Bino	con adaption to bivio	Con adaption to D
	0500	0.450	0000	10000
Max. DC Input Power (W)	6500 1000	8450 1000	9600	13000
Max. DC Input Voltage (V)*1 MPPT Range (V)*2	200~850	200~850	200~850	200~850
Start-up Voltage (V)	180	180	180	180
Min. Feed-in Voltage (V)	210	210	210	210
MPPT Range for Full Load (V)*3	240~850	310-850	380~850	460~850
Nominal DC Input Voltage (V)*4	620	620	620	620
Max. Input Current (A)	12.5 / 12.5	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	15.2 / 15.2
Number of MPPTs	2	2	2	2
Number of Strings per MPPT	1/1	1/1	1/1	1 / 1
AC Output Data (On-grid)	.,,.	.,,.	.,.	.,.
	5000	0500	0000	10000
Nominal Apparent Power Output to Utility Grid (VA)	5000	6500	8000	10000
Max. Apparent Power Output to Utility Grid (VA)*5*9 Max. Apparent Power from Utility Grid (VA)	5500 10000	7150 13000	8800 15000	11000 15000
7 (/				
Nominal Output Voltage (V)	400 / 380, 3L / N / PE 50 / 60	400 / 380, 3L / N / PE 50 / 60	400 / 380, 3L / N / PE 50 / 60	400 / 380, 3L / N / 50 / 60
Nominal Ouput Frequency (Hz) Max. AC Current Output to Utility Grid (A)	8.5	10.8	13.5	16.5
Max. AC Current from Utility Grid (A)	15.2	19.7	22.7	22.7
Output Power Factor	13.2		0.8 leading to 0.8 lagging)	22.1
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%
	< 0.70	< 0.70	< 576	NOTION
AC Output Data (Back-up; Optional)				
Max. Output Apparent Power (VA)	5000	6500	8000	10000
Peak Output Apparent Power (VA)*6	10000, 60sec	13000, 60sec	16000, 60sec	16500, 60sec
Max. Ouput Current (A)	8.5	10.8	13.5	16.5
Nominal Output Voltage (V)	400/380	400/380	400/380	400/380
Nominal Ouput Frequency (Hz)	50/60	50/60	50/60	50/60
Output THDv (@Linear Load)	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	98.0%	98.0%	98.2%	98.2%
Max. Battery to Load Efficiency	97.5%	97.5%	97.5%	97.5%
European Efficiency	97.2%	97.2%	97.5%	97.5%
Protection				
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated
PV String Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated
Battery Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated
General Data			-	
	0F CO	0F CO	0F CO	2F CO
Operating Temperature Range (°C) Relative Humidity	-35~60 0~95%	-35~60 0~95%	-35~60 0~95%	-35~60 0~95%
Operating Altitude (m)		0~93% ≤4000	0~95% ≤4000	54000 ≤4000
Cooling	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Noise (dB)	<30	<30	<30	<30
User Interface	LED & APP	LED & APP	LED & APP	LED & APP
Communication with BMS*7	RS485; CAN	RS485; CAN	RS485; CAN	RS485; CAN
Communication with Meter	RS485	RS485	RS485	RS485
Communication with EMS	RS485 (Insulated)	RS485 (Insulated)	RS485 (Insulated)	RS485 (Insulated)
Communication with Portal	Wi-Fi	Wi-Fi	Wi-Fi	Wi-Fi
Weight (Kg)	24	24	24	24
Size (Width × Height × Depth mm)	415 × 516 × 180	415 × 516 × 180	415 × 516 × 180	415 × 516 × 180
		Wall Bracket	Wall Bracket	Wall Bracket
Mounting	Wall Bracket	Wall Diacket		
Protection Degree	Wall Bracket	IP66	IP66	IP66
Mounting Protection Degree Standby Self-Consumption (W)*8				

^{*1:} For 1000V system, Maximum operating voltage is 950V.
For AustraliaL safety, there will be a warning if PV voltage > 600V.

*2: For AustraliaL safety, MPPT range is 200~550V.

*3: For AustraliaL safety, MPPT voltage upper limit is 550V.

*4: For AustraliaL safety, nominal DC input voltage is 450V.

*5: According to the local grid regulation.

 ^{*6:} Can be reached only if PV and battery power is enough.
 *7: CAN communication is configured by default. If 485 communication is used,

please replace the corresponding communication line.

*8: No Back-up Output.

*9: For Belgium Max. Output Apparent Power (VA): GW5K-ET is 5000; GW6.5K-ET is 6500; GW8K-ET is 8000; GW10K-ET is 10000.

*: Please visit GoodWe website for the latest certificates.