GOODWE

ET Series

15-29.9 kW I Three phase Up to 3 MPPTs I Hybrid Inverter (HV)

The GoodWe ET 15kW-29.9kW Series inverter is ideal for residential, small to medium commercial and industrial applications. As the core of an energy storage solution, the ET inverter massively lowers energy costs by efficiently storing the solar power for flexible use and increasing self-consumption. Peak shaving balances power demand and grid power imported, to effectively reduce extra grid demand for the most cost-effective use for your property. When paired with the GoodWe Home F Series battery, this offers a one-stop shop solution for Three Phase systems. This series is available in 15kW, 20kW, 25kW and 29.9kW models.



Friendly & Thoughtful Design

- · One-stop shop solution
- · Outstanding compatibility with batteries



Superb Safety & Reliability

Smart Control & Monitoring

· PV string current monitoring

· Integrated dry contact for external loads

- · AFCI optional1
- · Surge protections optional¹



Flexible & Adaptable Applications

- · Peak shaving
- · Up to 160% AC output backup overloading²



Max. Input Visiting M.	Technical Data	GW15K-ET	GW20K-ET	GW25K-ET	GW29.9K-ET	
Belley Type	Battery Input Data					
Nominal Estlery Voltage (V)			Li-l	on		
Max. Continuous Discharging Current (A)	Nominal Battery Voltage (V)		50	00		
Max. Central per per (M)		200 ~ 800				
Max. Charging Power (W) 15000 20000 12500 x 2 15000 x 2						
Max. Discharging Pewer (W) 15000 2000 12500 x 2 15000 x 2 15000 x 2 P 2 V 2 V 3 V 3 V 3 V 3 V 3 V 3 V 3 V 3 V						
Max. Input Perwer (W1						
Max. Input Voltage (V)	PV String Input Data					
Max. Input Voltage (V)	Max. Input Power (W)*1	22500	30000	37500	45000	
Start up Veltage (V)	Max. Input Voltage (V)*2		10	00		
Norman Input Verlage (V) 620						
Max. Right Current per MPPT (A) 30	Nominal Input Voltage (V)					
Number of MPP Tackers	Max. Input Current per MPPT (A)					
AC Output Data (On-grid) Control to Utility Grid (W) 15000 20000 25000 29900 29900 290						
Normal Apparent Power (Apparent Power (VA) 15000 20000 25000 29800						
Normal Apparent Power Cutron to Utility Grid (VA)	W 1	212	212	21212	21212	
Max. Apparent Power forulitility Grid (VA)						
Max. Apparent Power from Utility Grid (VA) 22500 30000 33000 33000 33000 30000 Normal Apparent Voltage (Part Normal Apparent Power (VA) 25 0 33 0 0 / 60 41 7 48 8 40 9 40						
Nominal Output Vollage (V)						
Nominal AC Grid Frequency (Hz)	Nominal Output Voltage (V)		380 / 400,	3L / N / PE		
Max. A C Current Port Dullity Grid (A)			0 ~ 300			
Max. AC Current From Utility Grid (A) 34.0 45.0 50.0 50.0 50.0 monified Output Current (A) 22.7 30.3 37.9 45.3 Power Factor ~1 (Adjustable from 0.8 leading −0.8 lagging) 45.3 Power Factor ~1 (Adjustable from 0.8 leading −0.8 leading −0.8 lagging) 45.3 Power Factor ~1 (Adjustable from 0.8 leading −0.8 lagging) 45.3 Power Factor ~1 (Adjustable from 0.8 leading −0.8 lagging) 45.3 Power Factor ~1 (Adjustable from 0.8 lagging) 45.3 Power Factor ~1		25.0			10.8	
Nominal Output Current (A) ⁻¹ 22.7 30.3 37.9 45.3	Max. AC Current Cutput to Clinty and (A) Max. AC Current From Utility Grid (A)					
Max. Total Harmonic Distortion <3% AC Output Data (Back-up) Back-up Nominal Apparent Power (VA) 15000 (18000860), 2400083) 2000 (2000080), 3000083) 25000 (300000800), 30000 (360000860), 3000080), 30000 (360000860), 3000080), 30000 (360000860), 3000080), 30000 (360000860), 3000080), 30000 (360000860), 3000080), 30000 (360000860), 3000080), 30000 (360000860), 3000080), 30000 (360000860), 3000080), 30000 (360000860), 3000080), 30000 (360000860), 3000080), 30000 (360000860), 30000 (360000860), 30000 (360000860), 30000 (360000860), 3000080), 30000 (360000860), 30000 (3600000860), 30000 (360000860), 30000 (360000860), 30000 (360000860), 300000000, 3000000000000000000000000	Nominal Output Current (A)*4	22.7			45.3	
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Beack-up Nominal Apparent Power (VA)			<3	70		
Max. Output Apparent Power (VA) 1500 (18000@66), 24000@63), 25000 (30000@66) 30000 (36000@66) 30000 (360000@66) 30000 (360000@66) 30000 (360000@66) 30000 (360000@66) 30000 (360000@66) 30000 (360000@66) 30000 (36000000 (36000000 (360000000 (360000000000	' ',					
Max. Output Current (A) 22.7 (27.3@60s, 36.4@3s) 30.3 (36.4@60s, 86.5@3s) 37.9 (45.5@60s) 45.5 (54.5@60s) Nominal Output Freqency (Hz) 50.60						
Nominal Output Voltage (V) 380 / 400 Nominal Output Freqency (Hz) 50 / 60 Output THDV (@Linear Load) <3%						
Same	Nominal Output Voltage (V)				(= = = = -,	
### Action						
Max. Efficiency 98.0% European Efficiency 97.5% Max. Battry to AC Efficiency 99.9% Protection PV Irring Current Monitoring PV String Current Monitoring Integrated Besidual Current Monitoring Integrated Besidual Current Monitoring Integrated Besidual Current Monitoring Integrated Besidual Current Monitoring Integrated PV Reverse Polarity Protection Integrated Across Polarity Protection Integrated Across Protection Integrated AC Surper Protection Integrated AC Surper Protection Integrated AC Surper Protection Integrated DC Surper Integrated DC Surper Integrated DC Surper Integrated			<3	5%		
Burden	-					
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 Battery Reverse Polarity Protection Integrated Battery Reverse Polarity Protection Integrated Act Overcurrent Protection Integrated Act Overcurrent Protection Integrated AC Sover Circuit Protection Integrated AC Sover Overoltage Protection Integrated AC Sover Overoltage Protection Integrated DC Switch GHX6-55P DC Surge Protection Type III AFC Optional General Data Optional Operating Temperature Range (°C) -35 ~ +60 Relative Humidity 0 ~ 95% Max. Operating Altitude (m) 0 ~ 95% Cooling Method Smart Fan Cooling User Interface LED, WLAN + APP Communication with Meter RS485 Communication with Meter						
Protection Protection Protection Integrated PV Isring Current Monitoring Integrated Integrated PV Isring Current Monitoring Integrated PV Isring Current Protection PV Isring Current Protection PV Isring Current Protection PV Isring Current Protection PV Isring Current Protection PV Isring Current PV Isring						
PV String Current Monitoring Integrated PV Insulation Resistance Detection Integrated Residual Current Monitoring Integrated PV Reverse Polarity Protection Integrated Battery Reverse Polarity Protection Integrated Anti-islanding Protection Integrated AC Overcurrent Protection Integrated AC Short Circuit Protection Integrated AC Overvoltage Protection Integrated AC Overvoltage Protection Integrated DC Switch GHX6-55P DC Surge Protection Type II AC Surge Protection Type II AC Surge Protection Type III AFCI Optional General Data Optional General Data Optional General Data Optional Operating Temperature Range (°C) 35 ~ +60 Relative Humidity 0 ~ 95% Max. Operating Altitude (m) 4000 Cooling Method Smart Fan Cooling User Interface LED, WLAN + APP Communication with BMS R5485 / CAN </td <td>MPPT Efficiency</td> <td></td> <td></td> <td></td> <td></td>	MPPT Efficiency					
New	Protection					
Integrated Residual Current Monitoring Integrated Residual Current Protection Integrated Residual Current Protection Integrated RAC Short Circuit Protection Residual Charles RAC Short Circuit Protection RAC Short Charles RAC S	PV String Current Monitoring		Intea	rated		
PV Reverse Polarity Protection	PV Insulation Resistance Detection	Integrated				
Battery Reverse Polarity Protection						
Anti-islanding Protection Integrated AC Overcurrent Protection Integrated AC Short Circuit Protection Integrated AC Overvoltage Protection Integrated DC Surge Protection Type II AC Surge Protection Type III AC Surge Protection Type III AFCI Optional General Data Operating Temperature Range (°C) -35 ~ +60 Relative Humidity 0 ~ 95% Max. Operating Altitude (m) 4000 Cooling Method Smart Fan Cooling User Interface LED, WLAN + APP Communication with BMS RS485 / CAN Communication with Meter RS485 Communication with Meter RS485 Communication with Portal WiFi / 4G Weight (kg) 48 48 54 54 Dimension (W x H x D mm) 520 x 660 x 220 Non-isolated Noise Emission (dB) <45						
AC Overourrent Protection AC Overourrent Protection AC Overvoltage Protection AC Overvoltage Protection AC Overvoltage Protection AC Surge Protect	Anti-islanding Protection					
AC Overvoltage Protection	AC Overcurrent Protection	Integrated				
DC Switch GHX6-55P DC Surge Protection Type II AC Surge Protection Type III AFCI Optional General Data Operating Temperature Range (°C) -35 ~ +60 Relative Humidity Max. Operating Altitude (m) 4000 Cooling Method Smart Fan Cooling User Interface LED, WLAN + APP Communication with BMS RS485 / CAN Communication with Meter RS485 Communication with Portal WiFi / 4G Weight (kg) 48 48 54 54 Dimension (W x H x D mm) 520 x 660 x 220 54 Noise Emission (dB) <45						
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AC Surge Protection Type III AFCI Optional General Data Operating Temperature Range (°C) -35 ~ +60 Relative Humidity 0 ~ 95% Max. Operating Altitude (m) 4000 Cooling Method Smart Fan Cooling User Interface LED, WLAN + APP Communication with BMS RS485 / CAN Communication with Portal RS485 Communication with Portal WiFi / 4G Weight (kg) 48 48 54 54 Dimension (W × H × D mm) 520 × 660 × 220 Noise Emission (dB) <45 <45 <60 Topology Non-isolated Self-consumption at Night (W)*6 <15 Ingress Protection Rating IP66 Overvoltage Category DC II / AC III Protective Class Mounting Method Wall Mounted	DC Surge Protection	Type II				
General Data Operating Temperature Range (°C) -35 ~ +60 Relative Humidity 0 ~ 95% Max. Operating Altitude (m) 4000 Cooling Method Smart Fan Cooling User Interface LED, WLAN + APP Communication with BMS RS485 / CAN Communication with Meter RS485 Communication with Portal WiFi / 4G Weight (kg) 48 48 54 54 Dimension (W x H x D mm) 520 x 660 x 220 54 Noise Emission (dB) <45						
Operating Temperature Range (°C)			Opti	onal		
Relative Humidity	General Data					
Max. Operating Altitude (m) 4000 Cooling Method Smart Fan Cooling User Interface LED, WLAN + APP Communication with BMS RS485 / CAN Communication with Portal WiFi / 4G Weight (kg) 48 48 54 54 Dimension (W × H × D mm) 520 × 660 × 220 Non-isolated Nolse Emission (dB) <45						
Cooling Method Smart Fan Cooling User Interface LED, WLAN + APP Communication with BMS RS485 / CAN Communication with Meter RS485 Communication with Portal WiFi / 4G Weight (kg) 48 48 54 54 Dimension (W × H × D mm) 520 × 660 × 220 50 50 60 Noise Emission (dB) <45						
User Interface LED, WLAN + APP Communication with BMS RS485 / CAN Communication with Meter RS485 Communication with Portal WiFi / 4G Weight (kg) 48 48 54 54 Dimension (W × H × D mm) 520 × 660 × 220 54 54 Noise Emission (dB) <45			Smart Fan Cooling			
Communication with Meter RS485 Communication with Portal WiFi / 4G Weight (kg) 48 48 54 54 Dimension (W × H × D mm) 520 × 660 × 220 520	User Interface	LED, WLAN + APP				
Communication with Portal WiFi / 4G Weight (kg) 48 48 54 54 Dimension (W × H × D mm) 520 × 660 × 220 50 50 60 50 60 70	Communication with BMS					
Weight (kg) 48 48 54 54 Dimension (W × H × D mm) 520 × 660 × 220 8 520 × 660 × 220 60 Noise Emission (dB) <45						
Dimension (W × H × D mm) 520 × 660 × 220 Noise Emission (dB) <45		48			54	
Noise Emission (dB) <45 <45 <45 <60 Topology Non-isolated Self-consumption at Night (W)** Self-consumption at Night (W)** Ingress Protection Rating IP66 Overvoltage Category DC II / AC III Protective Class I Mounting Method Wall Mounted			520 × 66	60 × 220		
Self-consumption at Night (W)*6 < 15 Ingress Protection Rating IP66 Overvoltage Category DC II / AC III Protective Class I Mounting Method Wall Mounted	Noise Emission (dB)	<45			<60	
Ingress Protection Rating IP66 Overvoltage Category DC II / AC III Protective Class I Mounting Method Wall Mounted						
Overvoltage Category DC II / AC III Protective Class I Mounting Method Wall Mounted	Colf concumption at Nicht (M)*6					
Protective Class I Mounting Method Wall Mounted						
	Ingress Protection Rating		IP	66		
	Ingress Protection Rating Overvoltage Category Protective Class		IPI DC II /	66 AC III		

^{*1:} Max. Input Power, not continuous for 1.5*normal power.

Max. Input Power, not continuous for 1.5 normal power.
 For 1000V system, Maximum operating voltage is 950V.
 Output Voltage Range: phase voltage.
 For 400V grid, the Nominal Output Current is 21.7A for GW15K-ET, 29.0A for GW20K-ET, 36.2A for GW25K-ET, 43.3A for GW29.9K-ET.

^{*5:} Can be reached only if PV and battery power is enough.

^{**:} Clar De reached only in FV and battery power is choogn.

**7: For 400V grid, the Max. AC Current Output to Utility Grid is 23.9A for GW15K-ET, 31.9A for GW20K-ET, 39.9A for GW25K-ET, 43.3A for GW29.9K-ET.

** Please visit GoodWe website for the latest certificates.

**: All pictures shown are for reference only. Actual appearance may vary.