## 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



#### Smart Control & Monitoring

- · Integrated dry contact for external loads
- · PV string current monitoring



#### Superb Safety & Reliability

- · AFCI optional1
- · Surge protections optional<sup>1</sup>



#### Flexible & Adaptable Applications

- · Peak shaving
- · Up to 160% AC output backup overloading<sup>2</sup>



Technical Data	GW15K-ET	GW20K-ET	GW25K-ET	GW29.9K-ET	
Battery Input Data					
Battery Type		Li-l	on		
Nominal Battery Voltage (V)	500				
Battery voltage range (V)	200 ~ 800				
Max. Continuous Charging Current (A) Max. Continuous Discharging Current (A)	50 50	50 50	50 x 2 50 x 2	50 x 2 50 x 2	
Max. Charging Power (W)	15000	20000	12500 × 2	15000 × 2	
Max. Discharging Power (W)	15000	20000	12500 × 2	15000 × 2	
PV String Input Data					
Max. Input Power (W)*1	22500	30000	37500	45000	
Max. Input Voltage (V)*2		100	00		
MPPT Operating Voltage Range (V)		200 ~ 850 200			
Start-up Voltage (V) Nominal Input Voltage (V)		620			
Max. Input Current per MPPT (A)		30			
Max. Short Circuit Current per MPPT (A)		38			
Number of MPP Trackers Number of Strings per MPPT	<u>2</u> 2/2	2/2	3 2/2/2	2/2/2	
<del></del>	212	2/2	2 2 2	2/2/2	
AC Output Data (On-grid)					
Nominal Apparent Power Output to Utility Grid (VA)	15000	20000	25000	29900	
Max. Apparent Power Output to Utility Grid (VA) Max. Apparent Power from Utility Grid (VA)	16500 22500	22000 30000	27500 33000	29900 33000	
Nominal Output Voltage (V)		380 / 400, 3	BL / N / PE		
Output Voltage Range (V)*3		0 ~ 300			
Nominal AC Grid Frequency (Hz) Max. AC Current Output to Utility Grid (A) <sup>77</sup>	25.0	33.3 50 /	41.7	49.8	
Max. AC Current Output to Othity Grid (A)  Max. AC Current From Utility Grid (A)	34.0	33.3 45.0	50.0	50.0	
Nominal Output Current (A)*4	22.7	30.3	37.9	45.3	
Power Factor	~1 (Adjustable from 0.8 leading~0.8 lagging)				
Max. Total Harmonic Distortion		<3	%		
AC Output Data (Back-up)					
Back-up Nominal Apparent Power (VA)	15000	20000	25000	29900	
Max. Output Apparent Power (VA)*5  Max. Output Current (A)		20000 (24000@60s, 32000@3s)	25000 (30000@60s) 37.9 (45.5@60s)	30000 (36000@60 45.5 (54.5@60s)	
Nominal Output Voltage (V)	22.7 (27.3@60s, 36.4@3s) 30.3 (36.4@60s, 48.5@3s) 37.9 (45.5@60s) 45.5 (54.5@60s) 380 / 400				
Nominal Output Freqency (Hz)	50/60				
Output THDv (@Linear Load)		<3	%		
Efficiency					
Max. Efficiency	98.0%				
European Efficiency Max. Battery to AC Efficiency	97.5% 97.5%				
MPPT Efficiency	99.9%				
Protection					
PV String Current Monitoring		Integr	rated		
PV Insulation Resistance Detection	Integrated				
Residual Current Monitoring	Integrated				
PV Reverse Polarity Protection  Battery Reverse Polarity Protection	Integrated Integrated				
Anti-islanding Protection	Integrated Integrated				
AC Overcurrent Protection	Integrated				
AC Short Circuit Protection	Integrated				
AC Overvoltage Protection  DC Switch	Integrated GHX6-55P				
	GHX6-55P Type II				
DC Surge Projection	Type III				
AC Surge Protection					
AC Surge Protection		Optio	onal		
DC Surge Protection AC Surge Protection AFCI  General Data			onal		
AC Surge Protection AFCI <b>General Data</b>		Optio -35 ~	+60		
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity		Optio -35 ~ 0 ~ 9	+60 95%		
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m)		-35 ~ 0 ~ 9 400	+60 95%		
AC Surge Protection AFCI  General Data Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method		-35 ~ 0 ~ 9 400 Smart Far	+60 155% 10 Cooling		
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity  Max. Operating Altitude (m) Cooling Method User Interface		-35 ~ 0 ~ 9 400	+60 95% 90 1 Cooling N + APP		
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS Communication with Meter		Optio  -35 ~ 0 ~ 9 400  Smart Far  LED, WLA  RS485  RS4	+60 15% 00 1 Cooling N + APP / CAN 85		
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS Communication with Meter Communication with Portal		-35 ~ 0 ~ 8 400 Smart Far LED, WLA RS485 RS4	+60 55% 50 1 Cooling N + APP / CAN 85		
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS Communication with Meter Communication with Portal Weight (kg)	48	-35 ~ 0 ~ 9 400 Smart Far LED, WLA RS485 RS4 WiFi,	+60 95% 90 1 Cooling N + APP / CAN 85 / 4G	54	
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS Communication with Meter Communication with Portal Weight (kg) Dimension (W × H × D mm)		-35 ~ 0 ~ \$ 400 Smart Far LED, WLA RS485 RS4 WiFi, 48	+60 95% 90 1 Cooling N + APP / CAN 85 4 G 54 0 × 220	54 <60	
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m)	48 <45	-35 ~ 0 ~ 9 400 Smart Far LED, WLA RS485 RS4 WiFi,	+60 15% 00 1 Cooling N + APP / CAN 85 / 4G 54 0 × 220 <45		
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS Communication with Portal Weight (kg) Dimension (W × H × D mm) Noise Emission (dB) Topology Self-consumption at Night (W)*6		-35 ~ 0 ~ 9 400 Smart Far LED, WLA RS485 RS4 WiFi, 48 520 x 66 <45 Non-isc	+60 05% 00 1 Cooling N + APP / CAN 85 / 4G 54 0 × 220 <45  Dlated 5		
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS Communication with Meter Communication with Portal Weight (kg) Dimension (W × H × D mm) Noise Emission (dB) Topology Self-consumption at Night (W)*6 Ingress Protection Rating		-35 ~ 0 ~ \$ 400 Smart Far LED, WLA RS485 RS4 WiFi 48 520 × 66 <45 Non-isc	+60 95% 90 1 Cooling N + APP / CAN 85 1 4G 54 0 × 220 < 45  colated 5 66		
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS Communication with Portal Weight (kg) Dimension (W × H × D mm) Noise Emission (dB) Topology Self-consumption at Night (W)*6 Ingress Protection Rating Overvoltage Category		-35 ~ 0 ~ 9 400 Smart Far LED, WLA RS485 RS4 WiFi, 48 520 x 66 <45 Non-isc	+60 95% 90 1 Cooling N + APP / CAN 85 1 4G 54 0 × 220 < 45  colated 5 66		
AC Surge Protection AFCI  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS Communication with Meter Communication with Portal Weight (kg) Dimension (W x H x D mm) Noise Emission (dB) Topology Self-consumption at Night (W)*6 Ingress Protection Rating		-35 ~ 0 ~ \$ 400 Smart Far LED, WLA RS485 RS4 WiFi 48 520 × 66 <45 Non-isc	+60 55% 500 1 Cooling N + APP / CAN 85 / 4G 54 0 × 220 45 blated 5 66 AC III</td <td></td>		

<sup>\*1:</sup> 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.

<sup>\*5:</sup> Can be reached only if PV and battery power is enough.

<sup>\*\*:</sup> 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.