

XS G3 Series

1.5-3kW | Single Phase | 1 MPPT

GoodWe XS G3 Series is a residential solar inverter that is designed for maximum convenience and efficiency. It is incredibly lightweight, weighing only 4.6kg and is as compact as an A4 paper, facilitating effortless installation and handling. It boasts an impressive 200% DC input oversizing and a maximum efficiency of 97.6%, ensuring maximum performance and energy generation for homeowners. In addition to its high efficiency, the inverter also offers a quiet operation with <20dB noise levels and IP66 ingress protection. Multiple communication options are supported for easy integration into a smart home system.



Smart Control & Monitoring

- 24/7 load consumption monitoring
- Export power limit



Friendly & Thoughtful Design

- Fanless design for quiet operation
- A4 size with lightweight



Superb Safety & Reliability

- IP66 ingress protection
- Optional AFCI¹
- Optional Type II SPD on both DC & AC sides¹



High Power Generation

- Max. 16A DC input current per string
- 200% DC input oversizing

Technical Data	GW1500-XS-30	GW2000-XS-30	GW2500-XS-30	GW3000-XS-30
Input				
Max. Input Power (W)	3000	4000	5000	6000
Max. Input Voltage (V) ¹			600	
MPPT Operating Voltage Range (V) ²	40 ~ 450	40 ~ 450	40 ~ 550	40 ~ 550
Start-up Voltage (V)			50	
Nominal Input Voltage (V)			360	
Max. Input Current per MPPT (A)			16	
Max. Short Circuit Current per MPPT (A)			25	
Number of MPP Trackers			1	
Number of Strings per MPPT			1	
Output				
Nominal Output Power (W)	1500	2000	2500	3000
Nominal Output Apparent Power (VA)	1500	2000	2500	3000
Max. AC Active Power (W)	1500	2000	2500	3000
Max. AC Apparent Power (VA)	1500	2000	2500	3000
Nominal Output Voltage (V)		220 / 230 / 240, L / N / PE		
Output Voltage Range (V)		154 ~ 288 (according to local standard)		
Nominal AC Grid Frequency (Hz)		50 / 60		
AC Grid Frequency Range (Hz)		45 ~ 55 / 57 ~ 63		
Max. Output Current (A)	6.9	9.1	11.4	13.7
Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion		<3%		
Efficiency				
Max. Efficiency	97.2%	97.6%	97.6%	97.6%
European Efficiency	96.0%	96.8%	97.0%	97.1%
Protection				
PV String Current Monitoring		Integrated		
PV Insulation Resistance Detection		Integrated		
Residual Current Monitoring		Integrated		
PV Reverse Polarity Protection		Integrated		
Anti-islanding Protection		Integrated		
AC Overcurrent Protection		Integrated		
AC Short Circuit Protection		Integrated		
AC Overvoltage Protection		Integrated		
DC Switch		Integrated		
DC Surge Protection		Type III (Type II Optional)		
AC Surge Protection		Type III (Type II Optional)		
AFCI		Optional		
Remote Shutdown		Optional		
Power Supply at Night		Optional		
PV Power Supply		Integrated		
General Data				
Operating Temperature Range (°C)		-25 ~ +60		
Relative Humidity		0 ~ 100%		
Max. Operating Altitude (m)		4000		
Cooling Method		Natural Convection		
User Interface		LCD, WLAN + APP		
Communication		RS485, WiFi, LAN or 4G or Bluetooth (Optional)		
Communication Protocols		Modbus RTU, Modbus TCP		
Weight (kg)		4.6		
Dimension (W × H × D mm)		306 × 218 × 119		
Noise Emission (dB)		<20		
Topology		Non-isolated		
Self-consumption at Night (W)		<3		
Ingress Protection Rating		IP66		
DC Connector		MC4 (4 ~ 6mm²)		
AC Connector		Plug and Play Connector		
Country of Manufacture		China		

*1: When the input voltage is 550-600V, the inverter will enter standby mode, and the voltage returns to 550V to enter the normal operation state.

*2: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.

*: Please visit GoodWe website for the latest certificates.

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