

# XS Series

Single-MPPT, Single-Phase



Technical Data	GW700-XS	GW1000-XS	GW1500-XS	GW2000-XS	GW2500-XS	GW3000-XS	GW2500N-XS	GW3000N-XS
<b>PV String Input Data</b>								
Max. DC Input Voltage (V)	500	500	500	500	500	500	600	600
MPPT Range (V)	40~450	40~450	50~450	50~450	50~450	50~450	50~550	50~550
Start-up Voltage (V)	40	40	50	50	50	50	50	50
Nominal Input Voltage (V)	360	360	360	360	360	360	360	360
Max. Input Current per MPPT (A)	12.5	12.5	12.5	12.5	12.5	12.5	13	13
Max. Short Current per MPPT (A)	15.6	15.6	15.6	15.6	15.6	15.6	16.3	16.3
No. of MPP Trackers	1	1	1	1	1	1	1	1
No. of Input Strings per MPPT	1	1	1	1	1	1	1	1
<b>AC Output Data</b>								
Nominal Output Power (W)	700	1000	1500	2000	2500	3000	2500	3000
Max. AC Active Power (W)	800	1100	1650	2200	2750	3300	2750	3300
Max. Output Apparent Power (VA)	800* <sup>1</sup>	1100* <sup>1</sup>	1650* <sup>1</sup>	2200* <sup>1</sup>	2750* <sup>1</sup>	3300* <sup>1</sup>	2750* <sup>1</sup>	3300* <sup>1</sup>
Nominal Output Voltage (V)	230	230	230	230	230	230	220/230	220/230
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	3.5	4.8	7.2	9.6	12	14.3	12	14.3
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)							
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%
<b>Efficiency</b>								
Max. Efficiency	97.2%	97.2%	97.3%	97.5%	97.6%	97.6%	97.6%	97.6%
European Efficiency	96.0%	96.4%	96.6%	97.0%	97.2%	97.2%	97.2%	97.2%
<b>Protection</b>								
DC Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Arrester	Type III	Type III	Type III	Type III	Type III	Type III	Type III (Type II Optional)	
AC Surge Arrester	Type III	Type III	Type III	Type III	Type III	Type III	Type III	Type III
DC Arc Fault Circuit Interrupter	NA	NA	NA	NA	NA	NA	Optional	Optional
<b>General Data</b>								
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling Method	Natural Convection							
Display	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED (Bluetooth+APP)	
Communication	WiFi or LAN or RS485						RS485 or WiFi	RS485 or WiFi
Weight (kg)	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Size (Width*Height*Depth mm)	295*230*113	295*230*113	295*230*113	295*230*113	295*230*113	295*230*113	295*230*113	295*230*113
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Night Power Consumption (W)	<1	<1	<1	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
DC Connector	MC4 (2.5~4mm <sup>2</sup> )							
AC Connector	plug and play connector							

\*<sup>1</sup>: For Belgium Max. Output Apparent Power (VA): GW700-XS is 700; GW1000-XS is 1000; GW1500-XS is 1500; GW2000-XS is 2000; GW2500-XS or GW2500N-XS is 2500; GW3000-XS or GW3000N-XS is 3000.  
 \*: Please visit GoodWe website for the latest certificates.



# NS Series

Single-MPPT, Single-Phase



Technical Data	GW1000-NS	GW1500-NS	GW2000-NS	GW2500-NS	GW3000-NS
<b>PV String Input Data</b>					
Max. DC Input Power (W)	1300	1950	2600	3250	3900
Max. DC Input Voltage (V)	500	500	500	500	500
MPPT Range (V)	80~450	80~450	80~450	80~450	80~450
Start-up Voltage (V)	80	80	80	80	80
MPPT Range for Full Load (V)	120~450	180~450	230~450	180~450	215~450
Nominal DC Input Voltage (V)	360	360	360	360	360
Max. Input Current (A)	10	10	10	18	18
Max. Short Current (A)	12.5	12.5	12.5	22.5	22.5
No. of MPP Trackers	1	1	1	1	1
No. of Input Strings per Tracker	1	1	1	1	1
<b>AC Output Data</b>					
Nominal Output Power (W)	1000* <sup>1</sup>	1500* <sup>1</sup>	2000* <sup>1</sup>	2500* <sup>1</sup>	3000* <sup>1</sup>
Max. Output Apparent Power (VA)	1000	1500	2000	2500	3000
Nominal Output Voltage (V)	220/230	220/230	220/230	220/230	220/230
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	5	7.5	10	12.5	13.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%
<b>Efficiency</b>					
Max. Efficiency	96.5%	97.0%	97.0%	97.5%	97.5%
Euro Efficiency	96.0%	96.0%	96.0%	97.0%	97.0%
<b>Protection</b>					
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
<b>General Data</b>					
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Convection	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Noise (dB)	<25	<25	<25	<25	<25
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi
Weight (kg)	7.5	7.5	7.5	7.5	7.5
Size (Width*Height*Depth mm)	344*274.5*128	344*274.5*128	344*274.5*128	344*274.5*128	344*274.5*128
Protection Degree	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
<b>Certifications &amp; Standards</b>					
Grid Regulation	VDE0126-1-1, AS4777.2, EN50438(PL), G83, ERDF-NOI-RES_13E, IEC61727, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN: 2011, UNE 206007-1 IN: 2013				
Safety Regulation	IEC62109-1&2				
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29				

\*1: For CEI 0-21 Nominal Output Power GW1000-NS is 900, GW1500-NS is 1350, GW2000-NS is 1800, GW2500-NS is 2250, GW3000-NS is 2700.



Color Options