

## Products Strengths



Start-up Voltage @50V



Highest Efficiency up to 98.3%

30%

30% DC Oversizing

10%

10% AC Overloading



Higher Power Density & Easy Installation



Compatible with double-glass bifacial modules

## Project Cases



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### GoodWe (China)

No.189 Kunlunshan Rd., SND, Suzhou, 215163, China  
T: +86 (0) 512 6239 7998  
sales@goodwe.com  
service.chn@goodwe.com

### GoodWe (Brazil)

Rua Abelardo 45, Recife/PE, 52050-310  
T: +55 54 992504491  
sales@goodwe.com  
servico.br@goodwe.com

### GoodWe (UK)

6 Dunhams Court, Dunhams Lane, Letchworth  
Garden City, SG6 1WB UK  
T: +44 (0) 333 358 3184  
enquiries@goodwe.com.uk  
service@goodwe.com.uk

### GoodWe (Italy)

No. 17 Via Galimberti, Biella 13900, Italy  
T: +31 (0) 30 737 1140  
sales@goodwe.com  
service.it@goodwe.com

### GoodWe (Australia)

Level 14, 380 St. Kilda Road, Melbourne,  
Victoria, 3004, Australia  
T: +61 (0) 3 9918 3905  
sales@goodwe.com  
service.au@goodwe.com

[www.goodwe.com](http://www.goodwe.com)

### GoodWe (Germany)

Fürstenrieder Str. 279a 81377 München, Germany  
T: +49 89 74 120 210  
sales.de@goodwe.com  
service.de@goodwe.com

### GoodWe (Netherlands)

Franciscusdreef 42C, 3565AC Utrecht, the Netherlands  
T: +31 (0) 30 737 1140  
sales@goodwe.com  
service.nl@goodwe.com

### GoodWe (India)

1202, G-Square Business Park, Sector 30A, Opp. Sanpada  
Railway Stn., Vashi, Navi Mumbai- 400703  
T: +91 (0) 2249746788  
sales@goodwe.com  
service.in@goodwe.com

### GoodWe (Turkey)

Adalet Mah. Megapol Tower K: 9 No: 110 Bayraklı - Izmir  
T: +90 (232) 935 68 18  
info@goodwe.com.tr  
service@goodwe.com.tr

### GoodWe (Mexico)

Oswaldo Sanchez Norte 3615, Col. Hidalgo, Monterrey,  
Nuevo Leon, Mexico, C.P. 64290  
T: +52 1 81 2871 2871  
sales@goodwe.com  
soporte.latam@goodwe.com

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## XS Series

Single MPPT, Single Phase



## NS Series

Single MPPT, Single Phase



Technical Data	GW700-XS	GW1000-XS	GW1500-XS	GW2000-XS	GW2500-NS	GW3000-NS
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PV String Input Data						
Max. DC Input Power (W)	910	1300	1950	2600	3250	3900
Max. DC Input Voltage (V)	500	500	500	500	500	500
MPPT Range (V)	50~450	50~450	50~450	50~450	80~450	80~450
Start-up Voltage (V)	50	50	50	50	80	80
MPPT Range for Full Load (V)	80~450	110~450	160~450	210~450	180~450	215~450
Nominal DC Input Voltage (V)	360	360	360	360	360	360
Max. Input Current (A)	12.5	12.5	12.5	12.5	18	18
Max. Short Current (A)	15.6	15.6	15.6	15.6	22.5	22.5
No. of MPP Trackers	1	1	1	1	1	1
No. of Input Strings per Tracker	1	1	1	1	1	1

AC Output Data						
Nominal Output Power (W)	700	1000	1500	2000	2500*1	3000*1
Max. Output Apparent Power (VA)	800	1100	1650	2200	2500	3000
Nominal Output Voltage (V)	230	230	230	230	220/230	220/230
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	3.5	4.8	7.2	9.6	12.5	13.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%

Efficiency						
Max. Efficiency	97.4%	97.4%	97.4%	97.4%	97.5%	97.5%
Europe Efficiency	96.8%	96.8%	96.9%	97.0%	97.0%	97.0%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%

Protection						
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated

General Data						
Operating Temperature Range (°C)	-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%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Convection			Natural Convection		
Noise (dB)	<25	<25	<25	<25	<25	<25
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	LAN	RS485 or WiFi or LAN	RS485 or WiFi or LAN	RS485 or WiFi or LAN	RS485 or WiFi	RS485 or WiFi
Weight (kg)	5.2	5.2	5.2	5.2	7.5	7.5
Size (Width*Height*Depth mm)	295*230*113	295*230*113	295*230*113	295*230*113	344*274.5*128	344*274.5*128
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1
Topology	Transformerless			Transformerless		

Certifications & Standards		
Grid Regulation	VDE0126-1-1, EN50438(PL)	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	IEC62109-1&2
EMC	EN61000	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.



## DNS Series

Dual MPPT, Single Phase



Technical Data	GW3000D-NS	GW3600D-NS	GW4200D-NS	GW5000D-NS	GW6000D-NS
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PV String Input Data					
Max. DC Input Power (W)	3900	4680	5460	6500	7200
Max. DC Input Voltage (V)	600	600	600	600	600
MPPT Range (V)	80~550	80~550	80~550	80~550	80~550
Start-up Voltage (V)	120	120	120	120	120
MPPT Range for Full Load (V)	150~550	180~550	210~550	250~550	280~550
Nominal DC Input Voltage (V)	360	360	360	360	360
Max. Input Current (A)	11/11	11/11	11/11	11/11	11/11
Max. Short Current (A)	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8
No. of MPP Trackers	2	2	2	2	2
No. of Input Strings per Tracker	1	1	1	1	1

AC Output Data					
Nominal Output Power (W)	3000*1	3680*1	4200*1	5000*1	6000*1
Max. Output Apparent Power (VA)	3000	3680	4200	5000	6000
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)	13.6	16	19	22.8	27.3
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%

Efficiency					
Max. Efficiency	97.8%	97.8%	97.8%	97.8%	97.8%
Euro Efficiency	97.5%	97.5%	97.5%	97.5%	97.5%

Protection					
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

General Data					
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				
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)	13	13	13	13	13.5
Size (Width*Height*Depth mm)	354*433*147	354*433*147	354*433*147	354*433*147	354*433*147
Protection Degree	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1
Topology	Transformerless				

Certifications & Standards			
Grid Regulation	VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G83, IEC61727, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN:2011, UNE 206007-1 IN:2013	VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G59, IEC61727, MEA, PEA, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN:2011, UNE 206007-1 IN:2013	VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G59, IEC61727, MEA, PEA, IEC62116, CEI 0-21
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 GW3000D-NS is 2700, GW3680D-NS is 3350, GW4200D-NS is 3800, GW5000D-NS is 4540, GW6000D-NS is 5450. For AS4777, Nominal Output Power GW5000D-NS is 4999.



## SDT Series

Dual MPPT, Three Phase



Technical Data	GW4000-DT	GW5000-DT	GW6000-DT	GW8000-DT	GW10KN-DT	GW12KN-DT	GW15KN-DT
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PV String Input Data							
Max. DC Input Power (W)	5200	6500	7800	9600	12000	16800	19500
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000	1000	1000
MPPT Range (V)	200~800	200~800	200~800	200~850	200~850	200~850	200~850
Start-up Voltage (V)	180	180	180	180	180	180	180
MPPT Range for Full Load (V)	195~800	240~800	285~800	380~850	480~850	380~850	480~850
Nominal DC Input Voltage (V)	620	620	620	620	620	620	620
Max. Input Current (A)	11/11	11/11	11/11	11/11	11/11	22/11	22/11
Max. Short Current (A)	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8	27.6/13.8	27.6/13.8
No. of MPP Trackers	2	2	2	2	2	2	2
No. of Input Strings per Tracker	1/1	1/1	1/1	1/1	1/1	2/1	2/1

AC Output Data							
Nominal Output Power (W)	4000*1	5000*1	6000*1	8000*1	10000*1	12000	15000
Max. Output Apparent Power (VA)	4000	5000	6000	8000	10000	14000	16500
Nominal Output Voltage (V)	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	8.5	8.5	10	12.1	15.2	21.5	24
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)						
Output THDi (@Nominal Output)	<2%	<2%	<2%	<2%	<2%	<2%	<2%

Efficiency							
Max. Efficiency	98.0%	98.0%	98.0%	98.3%	98.3%	98.3%	98.3%
Euro Efficiency	>97.5%	>97.5%	>97.5%	>98.0%	>98.0%	>98.0%	>98.0%

Protection							
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC SPD Protection	Type III	Type III	Type III	Type III	Type III	Type III	Type III
AC SPD Protection	Type III	Type III	Type III	Type III	Type III	Type III	Type III
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated

General Data							
Operating Temperature Range (°C)	-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%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Convection						
Noise (dB)	<30	<30	<30	<30	<30	<40	<40
User Interface	LCD & LED	LCD & LED	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	RS485 or WiFi	RS485 or WiFi
Weight (kg)	24	24	24	24	24	26	26
Size (Width*Height*Depth mm)	516*415*192	516*415*192	516*415*192	516*415*192	516*415*192	516*455*192	516*455*192
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1	<1
Topology	Transformerless						

Certifications & Standards				
Grid Regulation	VDE0126-1-1, VDE-AR-N 4105, AS4777.2, EN50438(PL), EN50438(SW), EN50438(IR), G83, ERDF-NOI-RES_13E, IEC61727, IEC62116, CEI 0-21	VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62116, EN50438(SW), EN50438(IR), CEI 0-21	VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62116, EN50438(PL), VDE-AR-N 4105	VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62