

Redefining Efficiency

The new GoodWe DSS Series is the first single-phase on-grid inverter in the market compatible with bifacial double-glass modules. Awarded with the prestigious Red Dot Design Award for its beautiful aesthetics and user friendly design with a touch screen display, the DSS Series inverter is now 30% lighter for easier installation both indoors and outdoors. Furthermore, DC oversizing of up to 35% and AC overloading of 10% is allowed. Thanks to its reliable performance, the DSS Series can reach a highest efficiency of up to 98.6%.



Compatible with double-glass bifacial modules



Connectors temperature sensor



Highest efficiency up to 98.6%



Rapid shutdown & optimization solution

DSS Series

Dual-MPPT, Single-Phase

4.2kW

5.0kW

3.6kW

Technical Data

GW4200-DSS

GW5000-DSS

GW3600-DSS

PV String Input Data	Max. DC Input Power (W)	5500	6500	4680
	Max. DC Input Voltage (V)	600	600	600
	MPPT Range (V)	80~550	80~550	80~550
	Start-up Voltage (V)	80	80	80
	MPPT Range for Full Load (V)	210~500	240~500	180~500
	Nominal DC Input Voltage (V)	360	360	360
	Max. Input Current (A)	12.5/12.5	12.5/12.5	12.5/12.5
	Max. Short Current (A)	15.6	15.6	15.6
	No. of MPP Trackers	2	2	2
	No. of Input Strings per Tracker	1	1	1
AC Output Data	Nominal Output Power (W)	4200	5000	3600
	Max. Output Apparent Power (VA)	4620	5500	3960
	Nominal Output Voltage (V)	220/230	220/230	220/230
	Nominal Output Frequency (Hz)	50/60	50/60	50/60
	Max. Output Current (A)	21	25	18
	Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%	
Efficiency	Max. Efficiency	98.6%	98.6%	98.6%
	Euro Efficiency	>98%	>98%	>98%
	MPPT Efficiency	99.9%	99.9%	99.9%
Protection	Anti-islanding Protection	Integrated	Integrated	Integrated
	Input Reverse Polarity Protection	Integrated	Integrated	Integrated
	Insulation Resistor Detection	Integrated	Integrated	Integrated
	DC SPD Protection	Integrated	Integrated	Integrated
	AC SPD Protection	Integrated	Integrated	Integrated
	Residual Current Monitoring Unit	Integrated	Integrated	Integrated
	Output Over Current Protection	Integrated	Integrated	Integrated
	Output Short Protection	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	
General Data	Operating Temperature Range (°C)	-25~60	-25~60	-25~60
	Relative Humidity	0~100%	0~100%	0~100%
	Operating Altitude (m)	≤4000	≤4000	≤4000
	Cooling	Natural Convection	Natural Convection	Natural Convection
	Noise (dB)	<25	<25	<25
	User Interface	LCD or APP	LCD or APP	LCD or APP
	Communication	RS485 or WiFi or LAN	RS485 or WiFi or LAN	RS485 or WiFi or LAN
	Weight (kg)	11	11	11
	Size (Width*Height*Depth mm)	336*400*124	336*400*124	336*400*124
	Protection Degree	IP65	IP65	IP65
	Night Self Consumption (W)	<1	<1	<1
	Topology	Transformerless	Transformerless	Transformerless
	Certifications & Standards	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		