

Redefining Efficiency

The new GoodWe DSS Super 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 Super 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 Super 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 Super Series

Dual-MPPT, Single-Phase



Technical Data

Model	Max. allowed PV Power (W)	MPPT Range for Full Load (V)	Nominal Output Power (W)	Max. Output Apparent Power (VA)	Max. Output Current (A)
GW4200-DSS	5500	210~500	4200	4620	21
GW5000-DSS	6500	240~500	5000	5500	25

PV String Input Data

Max. DC Input Voltage (V)	600
MPPT Range (V)	80~550
Start-up Voltage (V)	80
Nominal DC Input Voltage (V)	360
Max. Input Current (A)	12.5/12.5
Max. Short Current (A)	15.6
No. of MPP Trackers	2
No. of Input Strings per Tracker	1

AC Output Data

Nominal Output Voltage (V)	220/230
Nominal Output Frequency (Hz)	50/60
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)
Output THDi (@Nominal Output)	<3%

Efficiency

Max. efficiency	98.6%
Euro Efficiency	>98%

Protection

Anti-islanding Protection	Integrated
Input Reverse Polarity Protection	Integrated
Insulation Resistor Detection	Integrated
DC SPD Protection	Integrated(Type II)
AC SPD Protection	Integrated(Type II)
Residual Current Monitoring Unit	Integrated
Output Over Current Protection	Integrated
Output Short Protection	Integrated
Output Over Voltage Protection	Integrated

General Data

Operating Temperature Range (°C)	-25~60
Relative Humidity	0~100%
Operating Altitude (m)	≤4000
Cooling	Natural Convection
Noise (dB)	<25
User Interface	LCD or WiFi+APP
Communication	RS485 or WiFi or LAN
Weight (kg)	11
Size (Width*Height*Depth mm)	336*400*125
Protection Degree	IP65
Night Self Consumption (W)	<1
Topology	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