

DS Series Technical Data



- Dual MPPT trackers to suit two-side roof
- Maximum Efficiency up to 97.8%
- European Efficiency up to 97.4%
- MPPT Efficiency over 99.5%
- Up to 10 easy measurements
- DC switch disconnector
- IP65 dust-proof and water-proof rating
- 45°C full-load output
- Wide range of input voltage
- User-friendly Large LCD
- Wireless monitoring and communication
- Voice control operation
- Fastest low-voltage design
- 3 interchangeable appearance colors

GW3600-DS

GW4200-DS

DC Input Data		
Max. PV-generator power [kW]	3600	4600
Max. DC voltage [V]	580	580
MPPT voltage range [V]	125-550	125-550
Turn on DC voltage [V]	125	125
Turn off DC voltage [V]	60	60
Max. DC work current [A]	2*10	2*15
Number of inputs/MPPT trackers	4/2 (can parallel)	4/2 (can parallel)
DC connector	MC IV Connector (optional)	MC IV Connector (optional)
Standby power consumption [W]	5	5
AC Output Data		
Nominal AC power [kW]	3600	4600
Max. AC power [kW]	3600	4600
Max. AC current [A]	16	21
Nominal output voltage range	VDE-AR-N 4135, VDE 0126-1-1A1, RD1986, CCI 0-21, GSK2, AS4777.2:3	VDE-AR-N 4135, VDE 0126-1-1A1, RD1986, CCI 0-21, GSK2, AS4777.2:3
AC grid frequency	VDE-AR-N 4135, VDE 0126-1-1A1, RD1986, CCI 0-21, GSK2, AS4777.2:3	VDE-AR-N 4135, VDE 0126-1-1A1, RD1986, CCI 0-21, GSK2, AS4777.2:3
THDI	<1.5%	<1.5%
Power factor	0.90 leading, -0.90 lagging	0.90 leading, -0.90 lagging
AC connector	Single phase	Single phase
Efficiency		
Max. efficiency	97.8%	97.8%
European efficiency	>97.4%	>97.4%
MPPT adaptation efficiency	>99.5%	>99.5%
Safety Equipment		
Leakage current monitoring unit	Integrated	Integrated
DC switch	Optional	Optional
Islanding protection	AFD	AFD
Grid monitoring	VDE-AR-N 4135, VDE 0126-1-1A1, RD1986, CCI 0-21, GSK2, AS4777.2:3	VDE-AR-N 4135, VDE 0126-1-1A1, RD1986, CCI 0-21, GSK2, AS4777.2:3
Nomative Reference		
EMC compliance	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Safety compliance	IEC 62109-1, AS3130	IEC 62109-1, AS3130
General Data		
Dimensions (W*H*D) [mm]	382*417*165	382*417*165
Net weight [kg]	20	20
Housing	For outdoor and indoor	For outdoor and indoor
Mounting information	Wall mounting	Wall mounting
Operating temperature range	-30~45°C (up 45°C de-rating)	-30~45°C (up 45°C de-rating)
Relative humidity	0~95%	0~95%
Site altitude [m]	2000	2000
IP protection class	IP65	IP65
Topology	Transformerless	Transformerless
Cooling concept	Natural convection	Natural convection
Noise level [dB]	<25	<25
Display	4" LCD	4" LCD
Communication	USB 2.0, RS485/W-Fi2g(we)(optional)	USB 2.0, RS485/W-Fi2g(we)(optional)
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

GoodWe DS series inverter is designed under modern ID concept. There are three colors for option with fashionable appearance. It has created a new standard for inverter technology with more advanced reactive compensation technology and dual MPPT trackers. The new series has a wide range of domestic applications. Aside from being compatible with different types of solar panel brands, it also meets the demands of easy installation and simple operation for indoor and outdoor use. Despite the fact that its weight is super light, it meets the IP65 protective class. Our unique dual MPPT trackers and low THDI makes the DS series the best choice for users to build up perfect photovoltaic systems.

color options



GW4600-DS

GW3600 D-LK

GW3600 D-DK

4600	4600	4600
580	580	580
125-550	125-550	125-550
125	125	125
60	60	60
2*15	2*10	2*10
4/2 (can parallel)	4/2 (can parallel)	4/2 (can parallel)
MC IV Connector (optional)	MC IV Connector (optional)	MC IV Connector (optional)
5	5	5
4600	3600	3600
5100	4000	4000
21	16	16
According to VDE-AR-N 4135, VDE 0126-1-1A1, RD1986, CCI 0-21, GSK2, AS4777.2:3	G831(For LK)/VDE 0126-1-1A1 and EN 50438(For DK)	VDE 0126-1-1A1, EN 50438 (For DK)
According to VDE-AR-N 4135, VDE 0126-1-1A1, RD1986, CCI 0-21, GSK2, AS4777.2:3	G831(For LK)/VDE 0126-1-1A1 and EN 50438(For DK)	VDE 0126-1-1A1, EN 50438 (For DK)
<1.5%	<1.5%	<1.5%
0.90 leading, -0.90 lagging	-1	Single phase
Single phase		
97.8%	97.0%	97.0%
>97.4%	>97.4%	>97.4%
>99.5%	>99.5%	>99.5%
Integrated	Integrated	Integrated
Optional	Optional	Optional
AFD	AFD	AFD
According to VDE-AR-N 4135, VDE 0126-1-1A1, RD1986, CCI 0-21, GSK2, AS4777.2:3	G831(For LK)/VDE 0126-1-1A1 and EN 50438(For DK)	VDE 0126-1-1A1, EN 50438 (For DK)
EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
IEC 62109-1, AS3130	IEC 62109-1, AS3130	IEC 62109-1, AS3130
382*417*165	382*417*165	382*417*165
20	20	20
For outdoor and indoor	For outdoor and indoor	For outdoor and indoor
Wall mounting	Wall bracket	Wall bracket
-30~45°C (up 45°C de-rating)	-30~45°C (up 45°C de-rating)	-30~45°C (up 45°C de-rating)
0~95%	0~95%	0~95%
2000	2000	2000
IP65	IP65	IP65
Transformerless	Transformerless	Transformerless
Natural convection	Natural convection	Natural convection
<25	<25	<25
4" LCD	4" LCD	4" LCD
USB 2.0, RS485/W-Fi2g(we)(optional)	USB 2.0, RS485/W-Fi2g(we)(optional)	USB 2.0, RS485/W-Fi2g(we)(optional)
5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)