

GOODWE

DS Series



Single phase grid inverter, double MPP Tracker

DS Series

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 MPP 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 MPP trackers and low THDi makes the DS series the best choice for users to build up perfect photovoltaic systems.

Features

- Dual MPP 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 safety measurements
- DC switch
- 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
- Fanless low-noise design
- 3 selectable appearance colors

DC INPUT	GW3600-DS	GW4200-DS	GW4600-DS
Max. PV-generator power	3800 W	4600 W	5400 W
Max. DC voltage	580 V	580 V	580 V
MPPT voltage range	125~550 V	125~550 V	125~550 V
Turn on DC voltage	125 V	125 V	125 V
Max. DC work current	2*10 A	2*15 A	2*15 A
Number of inputs/MPP trackers	4/2 (can parallel)	4/2 (can parallel)	4/2 (can parallel)
DC connector	SUNCLIX, MC IV (optional)	SUNCLIX, MC IV (optional)	SUNCLIX, MC IV (optional)
Standby power consumption	5 W	5 W	5 W
AC OUTPUT			
Nominal AC power	3600 W	4200 W	4600 W
Max. AC power	3600 W	4400 W	5100 W
Max. AC current	18 A	21 A	25 A
Nominal output voltage range	VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, G59/2, AS4777.2/.3		
AC grid frequency	VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, G59/2, AS4777.2/.3		
THDi	<1.5%		
Power factor	0.90 leading...0.90 lagging		
AC connector	Single phase		
EFFICIENCY			
Max. efficiency	97.6%		
European efficiency	>97.0%		
MPPT adaptation efficiency	>99.5%		
SAFETY EQUIPMENT			
Leakage current monitoring unit	Integrated		
DC switch	Optional		
Islanding protection	AFD		
Grid monitoring	VDE-AR-N 4105, VDE 0126-1-1/A1, RD1699, G59/2, AS4777.2/.3		
NORMATIVE REFERENCE			
EMC compliance	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4		
Safety compliance	IEC 62109-1, AS3100		
GENERAL DATA			
Dimensions (W x H x D)	390 x 417 x 165 mm		
Net weight	20 kg		
Housing	For outdoor and indoor		
Mounting information	Wall mounting		
Operating temperature range	-20~60°C (up 45°C derating)		
Relative humidity	0~95%		
Site altitude	2000 m		
IP protection class	IP65		
Topology	Transformerless		
Cooling concept	Natural convection		
Noise level	<25 dB		
Display	4" LCD		
Communication	USB 2.0; RS485/Wi-Fi/ZigBee (optional)		
Standard warranty	10 years (15/20/25 optional)		