



DS Series(Dual-MPPT, Single-Phase)

Just Solar 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 MPPTs. 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 MPPTs and low THDi makes the DS series the best choice for users to build up perfect photovoltaic systems.

- 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 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

Technical Data

	JST-3600-DS	JST-4200-DS	JST-4600-DS
DC Input Data			
Max. DC power [W]	3800	4600	5400
Max. DC voltage [V]	580	580	580
MPPT voltage range [V]	125~550	125~550	125~550
Starting voltage [V]	125	125	125
Max. DC current [A]	10/10	15/15	15/15
No. of DC connectors	2	2	2
No. of MPPTs	2 (can parallel)	2 (can parallel)	2 (can parallel)
DC connector	SUNCLIX / MC4 (optional)	SUNCLIX / MC4 (optional)	SUNCLIX / MC4 (optional)
AC Output Data			
Normal AC power [W]	3600	4200	4600
Max. AC power [W]	3600	4400	5100
Max. AC current [A]	18	21	25
Normal AC output	50/60Hz; 230Vac	50/60Hz; 230Vac	50/60Hz; 230Vac
AC output range	45~55Hz/55~65Hz; 180~270Vac	45~55Hz/55~65Hz; 180~270Vac	45~55Hz/55~65Hz; 180~270Vac
THDi	<1.5%	<1.5%	<1.5%
Power factor	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging
Grid connection	Single phase	Single phase	Single phase
Efficiency			
Max. efficiency	97.6%	97.8%	97.8%
Euro efficiency	>97%	>97.4%	>97.4%
MPPT adaptation efficiency	>99.5%	>99.5%	>99.5%
Protection			
Residual current monitoring unit	Integrated	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated	Integrated
DC switch	Integrated (optional)	Integrated (optional)	Integrated (optional)
AC over current protection	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated
Certifications&Standards			
Grid regulation	VDE-AR-N 4105, AS4777.2&3, RD1699, G59/2, IEC62109-2, VDE0126-1-1+A1, EN50438	VDE-AR-N 4105, AS4777.2&3, RD1699, IEC62109-2, VDE0126-1-1+A1, EN50438	VDE-AR-N 4105, AS4777.2&3, RD1699, G59/2, IEC62109-2, VDE0126-1-1+A1, EN50438, MEA, PEA
Safety	IEC62109-1&-2, AS3100	IEC62109-1&-2, AS3100	IEC62109-1&-2, AS3100
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12		
General Data			
Dimensions (WxHxD)	390*417*165mm	390*417*165mm	390*417*165mm
Weight [kg]	20	20	20
Mounting	Wall bracket	Wall bracket	Wall bracket
Ambient temperature range	-20~60°C (>45°C derating)	-20~60°C (>45°C derating)	-20~60°C (>45°C derating)
Relative humidity	0~95%	0~95%	0~95%
Max. operating altitude	2000m	2000m	2000m
Protection degree	IP65	IP65	IP65
Topology	Transformerless	Transformerless	Transformerless
Night power consumption [W]	<1	<1	<1
Cooling	Nature convection	Nature convection	Nature convection
Noise emission [dB]	<25	<25	<25
Display	4.0" LCD	4.0" LCD	4.0" LCD
Communication	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)



color options