

Technical Data

GW3600-DS

GW4200-DS

GW4600-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)