

Technical Data

GW5048D-ES

GW3648D-ES

Solar		
Max. DC power [W]	5400	4200
Max. DC voltage [V]	580	580
MPPT voltage range [V]	125~550	125~550
Starting voltage [V]	125	125
Max. DC current [A]	15/15	15/15
No. of DC connectors	2	2
No. of MPPTs	2 (can parallel)	2 (can parallel)
DC connector	SUNCLIX / MC4 (optional)	SUNCLIX / MC4 (optional)
Battery		
Battery type	Lead-acid or Li-Ion	Lead-acid or Li-Ion
Battery voltage range [V]	40-60	40-60
Max Discharge power [W]	4600	2300
Charge current [A]	5-50 continuous, programmable	5-50 continuous, programmable
Battery capacity [Ah]	100~500 (depending requirement)	100~500 (depending requirement)
Charging curve	3-stage adaptive with maintenance	3-stage adaptive with maintenance
Battery temperature compensation	Included (Li-Ion)	Included (Li-Ion)
Battery voltage sense	Integrated	Integrated
Current shunt	Integrated	Integrated
AC Output Data		
Normal AC power [W]	4600	3600
Max. AC power [W]	4600	3600
Peak power (Back-up) [W]	1.5x Pnom, 10sec	1.5x Pnom, 10sec
Max. AC current [A]	20	16
Normal AC output	50/60Hz; 230Vac	50/60Hz; 230Vac
AC output range	45~55Hz/55~65Hz; 180~270Vac	45~55Hz/55~65Hz; 180~270Vac
AC output (Back-up)	230Vac $\pm 2\%$, 50Hz $\pm 0.2\%$, THDv<3% (linear load)	230Vac $\pm 2\%$, 50Hz $\pm 0.2\%$, THDv<3% (linear load)
THDi	<1.5%	<1.5%
Power factor	0.9 leading~0.9 lagging	0.9 leading~0.9 lagging
Grid connection	Single phase	Single phase
Efficiency		
Max. efficiency	97.6%	97.6%
Euro efficiency	>97.0%	>97.0%
MPPT adaptation efficiency	>99.5%	>99.5%
Protection		
Residual current monitoring unit	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated
DC switch (PV)	Integrated	Integrated
AC over current protection	Integrated	Integrated
Insulation monitoring	Integrated	Integrated
Certifications&Standards		
Grid regulation	VDE4105, VDE 0126-1-1+A1, G83/2, G59/2, AS4777.2/3, IEC62109-2	
Safety	IEC62109-1&-2, AS3100, IEC62040-1	
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-3-11, EN61000-3-12	
General Data		
Dimensions (WxHxD)	516*440*184mm	516*440*184mm
Weight [kg]	30	28
Mounting	Wall bracket	Wall bracket
Ambient temperature range	-20~60°C (>45°C derating)	-20~60°C (>45°C derating)
Relative humidity	0~95%	0~95%
Max. operating altitude	2000m	2000m
Protection degree	IP65	IP65
Topology	Transformerless	Transformerless
Standby losses [W]	<8	<8
Cooling	Nature convection	Nature convection
Noise emission [dB]	<25	<25
Display	LED light & APP	LED light & APP
Communication	USB2.0; RS485; WiFi	USB2.0; RS485; WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)