

1P 4G

2.5kW
-
5kW

Solis 1P 4G Single Phase Inverter

- ▶ Solis 1P 4G Single Phase Range
- ▶ High frequency switching technology - Smaller, smarter
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Intergrated Export Power Manager(EPM)
- ▶ Over 98.1% Max. efficiency
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-iphone and android app available
- ▶ 5 years standard warranty, 20 years optional upgrade



Model:

Solis-1P2.5K-4G

Solis-1P3K-4G

Solis-1P3.6K-4G

Solis-1P4K-4G

Solis-1P4.6K-4G

Solis-1P5K-4G

Solis-1P5K-4G-MX

Features:

EPM
Export power manager

HF SWITCH
High switch frequency

AFCI
Optional

IP65

WiFi/GPRS
Real time monitoring

Available on the iPhone
App Store
Available on the Android
App Store

Datasheet

Model	Solis-1P2.5K-4G	Solis-1P3K-4G	Solis-1P3.6K-4G	Solis-1P4K-4G	Solis-1P4.6K-4G	Solis-1P5K-4G	Solis-1P-5K-4G-MX
Energy Source	PV						
Input Side(DC)							
Max. DC input power(kW)	3.3	4.0	4.8	5.32	6.12	6.65	6.65
Max. DC input voltage(V)	600						
Start-up voltage(V)	120						
MPPT voltage range(V)	90-520						
Max. input current(A)	11A+11A						
MPPT number/Max input strings number	2/2						
Output Side (AC)							
Rated output power(kW)	2.5	3	3.6	4	4.6	5	4.999
Max. apparent output power(kVA)	2.8	3.3	4	4.4	5	5	4.999
Max. output power(kW)	2.8	3.3	4	4.4	5	5	4.999
Rated grid voltage(V)	220/230						
Rated grid frequency(Hz)	50/60						
Operation phase	Single						
Rated grid output current(A)	11.4/10.9	13.6/13	16/15.7	18.2/17.4	20.9/20	22.7/21.7	22.7/21.7
Max. output current(A)	13.3	15.7	16	21	21.7	21.7	21.7
Power Factor (at rated output power)	0.8...1...0.8						
THDi (at rated output power)	<3%						
DC injection current(mA)	<0.5%In						
Grid frequency range(Hz)	47-52 or 57-62						
Efficiency							
Max. efficiency	97.8%			98.1%			
EU efficiency	97.1%			97.3%			
MPPT efficiency	>99.5%						
Protection							
DC reverse-polarity protection	Yes						
Short circuit protection	Yes						
Output over current protection	Yes						
Output over voltage protection	Yes						
Insulation resistance monitoring	Yes						
Residual current detection/ Surge protection	Yes/Yes						
Islanding protection/ Temperature protection	Yes/Yes						
Integrated DC switch	Optional						
General Data							
Dimensions(mm)	310W*543H*160D (mm)						
Weight(kg)	11.5						
Topology	Transformerless						
Self consumption (night)	<1W(Night)						
Operating ambient temperature range	-25~60°C						
Ingress protection	IP65						
Noise emission{typical}	<30 dBA						
Cooling concept	Natural convection						
Max.operation altitude	4000m						
Designed lifetime	>20years						
Grid connection standard	EN50438, G83/2, G59/3, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105						
Relative humidity	0~100%						
Safety/EMC standard	IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3						
Features							
DC connection	MC-4 mateable						
AC connection	IP67 rated plug						
Display	LCD,2×20 Z.						
Communication connections	4 pins RS485 connector						
Warranty	5 years standard (extend to 20 years)						
DRM function	Integrated DRM function						
Backfeed control	Intetraged backfeed control function(Optional)						