

3P 4G

12kW

4G⁺ NEW

Solis 3P 4G Three Phase Inverter

- ▶ Solis 4G Three Phase Range
- ▶ 160V-850V MPPT voltage range-ultra low startup
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ THDi<1.5%, low harmonic distortion against grid
- ▶ Over 98.7% Max. efficiency
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ Multiple protections levels
- ▶ WiFi monitoring available-iphone and android app available
- ▶ 5 years standard warranty, 20 years optional upgrade



Model:

Solis-3P12K-4G

Features:

THDi

<2%

IP65

Weight

22kg

AFCI

Optional

WiFi/GPRS

Real time
monitoring

Available on the iPhone
App Store

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Datasheet

Model	Solis-3P12K-4G
Energy Source	PV
Input Side(DC)	
Max. DC input power(kW)	14.5
Max. DC input voltage(V)	1000
Start-up voltage(V)	180
MPPT voltage range(V)	160-850
Max. input current per MPPT(A/B)	22A+22A
MPPT number/Strings per MPPT input	2 / A:2; B:2
Output Side (AC)	
Rated output power(kW)	12
Max. apparent output power(kVA)	13.2
Max. output power(kW)	13.2
Rated grid voltage(V _{LL})	400
Grid voltage range(V)	313-470
Rated grid frequency(Hz)	50/60
Operation phase	three
Rated grid output current(A)	17.3
Max. output current(A)	20.1
Power Factor (at rated output power)	0.8 leading ... 0.8 lagging
THDi (at rated output power)	<2%
DC injection current(mA)	<0.5%I _n
Grid frequency range(Hz)	47-52 or 57-62
Efficiency	
Max.efficiency	98.7%
EU efficiency	98.1%
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	Yes
Surge protection	Yes
Islanding protection	Yes
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Dimensions(mm)	310W*563H*219D
Weight(kg)	22
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	>20 years
Grid connection standard	EN50438, G59/3, AS4777, VDE0126-1-1, IEC61727, VDE N4105
Relative humidity	0~100%
Safety/EMC standard	IEC62109-1/-2, AS3100
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)