

3P 4G

12kW
-
20kW

4G⁺ NEW

Solis 3P 4G Three Phase Inverter

- ▶ Solis 4G Three Phase Range
- ▶ 160V-1000V input voltage range-ultra low startup
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ THDi < 2%, low harmonic distortion against grid
- ▶ Over 98.6% 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
Solis-3P20K-4G

Solis-3P15K-4G

Solis-3P17K-4G

Features:

THDi

<2%

IP65

Weight

19.9kg

AFCI

Optional

WiFi/GPRS

Real time
monitoring

Available on the iPhone
App Store

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Datasheet

Model	Solis-3P12K-4G	Solis-3P15K-4G	Solis-3P17K-4G	Solis-3P20K-4G
Energy Source	PV			
Input Side(DC)				
Max. DC input power(kW)	14.5	18	20.4	24
Max. DC input voltage(V)	1000			
Start-up voltage(V)	180			
MPPT voltage range(V)	160-1000			
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	15	17	20
Max. apparent output power(kVA)	13.2	16.5	18.7	22
Max. output power(kW)	13.2	16.5	18.7	22
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	21.7	24.6	28.9
Max. output current(A)	20.1	25.1	28.4	33.5
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 _{in}			
Grid frequency range(Hz)	47-52 or 57-62			
Efficiency				
Max. efficiency	98.6%			
EU efficiency	98.0%			
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*608H*219D (mm)			
Weight(kg)	19.9			
Topology	Transformerless			
Self consumption (night)	<1W(Night)			
Operating ambient temperature range	-25~60℃			
Ingress protection	IP65			
Noise emission{typical}	<30 dBA			
Cooling concept	Natural convection	Intelligent redundant fan-cooling		
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)			