

3P 4G

10kW
-
20kW

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:

220V Solis-3P10K-4G-LV

400V Solis-3P12K-4G Solis-3P15K-4G Solis-3P17K-4G
Solis-3P20K-4G

Features:

THDi

<1.5%

IP65

Weight

18.9kg

AFCI

Optional

WiFi/GPRS

Real time
monitoring

Available on the iPhone
App Store

Available on the Android
App Store

Datasheet

Model	Solis-3P10K-4G-LV	Solis-3P12K-4G	Solis-3P15K-4G	Solis-3P17K-4G	Solis-3P20K-4G
Energy Source	PV				
Input Side(DC)					
Max. DC input power(kW)	12	14.5	18	20.4	24
Max. DC input voltage(V)	600	1000			
Start-up voltage(V)	180	180			
MPPT voltage range(V)	160-500	160-850			
Max. input current per MPPT(A/B)	22A+22A	22A+22A			
MPPT number/Max input strings number	2/4	2/4			
Output Side (AC)					
Rated output power(kW)	10	12	15	17	20
Max. apparent output power(kVA)	11	13.2	16.5	18.7	22
Max. output power(kW)	11	13.2	16.5	18.7	22
Rated grid voltage(V _{LL})	208/220/240	400	400	400	400
Rated grid frequency(Hz)	50/60				
Operation phase	Three				
Rated grid output current@400V	26.2	17.3	21.7	24.6	28.9
Max. output current(A)	28.8	20.1	25.1	28.4	33.5
Power Factor (at rated output power)	0.8 leading ... 0.8 lagging				
THDi	<1.5%				
DC injection current(mA)	<0.5%I _n				
Grid frequency range(Hz)	47-52 or 57-62				
Efficiency					
Max. efficiency	98.0%				98.7%
EU efficiency	97.5%				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	Yes				
General Data					
Dimensions(mm)	310W*563H*219D				
Weight(kg)	19.8	18.9			19.8
Topology	Transformerless				
Self consumption (night)	<1W(Night)				
Operating ambient temperature range	-25°C~60°C				
Ingress protection	IP65				
Noise emission{typical}	<30 dBA				
Cooling concept	Intelligent redundant fan-cooling				
Max.operation altitude	4000m				
Designed lifetime	>20 years				
Grid connection standard	En50438, G59/3, AS4777, VDE0126-1-1, IEC61727				
Relative humidity	0~100%				
Safety/EMC standard	IEC62109-1/-2, AS3100				
Features					
DC connection	MC-4 mateable				
AC connection	Terminal connectors				
Display	LCD,2×20 Z.				
Communication connections	4 pins RS485 connector				
Warranty	5 years standard (extend to 20 years)				