

3P 4G

5kW  
-  
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 (extendable up to 20 years)



### Model:

Solis-3P5K-4G-AU

Solis-3P6K-4G-AU

Solis-3P8K-4G-AU

Solis-3P9K-4G-AU

Solis-3P10K-4G-AU

Solis-3P12K-4G-AU

Solis-3P15K-4G-AU

Solis-3P17K-4G-AU

Solis-3P20K-4G-AU

### 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-3P5K-4G-AU	Solis-3P6K-4G-AU	Solis-3P8K-4G-AU	Solis-3P9K-4G-AU	Solis-3P10K-4G-AU	Solis-3P12K-4G-AU	Solis-3P15K-4G-AU	Solis-3P17K-4G-AU	Solis-3P20K-4G-AU
Energy Source	PV								
<b>Input Side(DC)</b>									
Max. DC input power(kW)	10	12	12	13.5	15	18	22.5	24	24
Max. DC input voltage(V)	1000								
Start-up voltage(V)	180								
MPPT voltage range(V)	160-850								
Max. input current per MPPT(A)	22+11			22+22					
MPPT number/Max input strings number	2/2			2/4					
<b>Output Side (AC)</b>									
Rated output power(kW)	5	6	8	9	10	12	15	17	20
Max. apparent output power(kVA)	5.5	6.6	8.8	9.9	11	13.2	16.5	18.7	22
Max. output power(kW)	5.5	6.6	8.8	9.9	11	13.2	16.5	18.7	22
Rated grid voltage(V <sub>LL</sub> )	400								
Rated grid frequency(Hz)	50/60								
Operation phase	Three								
Rated grid output current(A)	7.2	8.7	11.5	13	14.4	17.3	21.7	24.6	28.9
Max. output current(A)	7.9	9.5	12.7	14.3	15.9	19.1	23.8	27	31.8
Power Factor (at rated output power)	0.8 leading ... 0.8 lagging								
THDi	<1.5%								
DC injection current(mA)	<0.5%I <sub>n</sub>								
Grid frequency range(Hz)	47-52 or 57-62								
<b>Efficiency</b>									
Max. efficiency	98.3%			98.7%					
EU efficiency	97.8%			98.1%					
MPPT efficiency	>99.5%								
<b>Protection</b>									
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								
<b>General Data</b>									
Dimensions(mm)	563W*310H*219D								
Weight(kg)	18.9						19.8		
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					Natural Convection + Redundancy Fan			
Max.operation altitude	4000m								
Designed lifetime	>20 years								
Grid connection standard	EN50438, G83/2, 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								
<b>Features</b>									
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 (extendable up to 20 years)								
DRM function	Integrated DRM function								
Backfeed control	Intetraged backfeed control function(Optional)								