

# Solis-3P(5-20)K-4G

Solis Three Phase Inverters



360 degree

## Features:

- ▶ Max. efficiency 98.7%
- ▶ Wide voltage range and low startup voltage
- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ THDi<1.5%, low harmonic distortion against grid
- ▶ AFCI protection, proactively reduces fire risk
- ▶ Multiple protections levels
- ▶ Intergrated Export Power Manager (EPM)



## Model:

Solis-3P5K-4G   Solis-3P6K-4G   Solis-3P8K-4G  
Solis-3P10K-4G   Solis-3P12K-4G   Solis-3P15K-4G  
Solis-3P17K-4G   Solis-3P20K-4G

## Datasheet

Model Name	Solis-3P5K-4G	Solis-3P6K-4G	Solis-3P8K-4G	Solis-3P10K-4G	Solis-3P12K-4G	Solis-3P15K-4G	Solis-3P17K-4G	Solis-3P20K-4G
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### Input DC

Recommended max. PV power	7.5 kW	9 kW	12 kW	15 kW	18 kW	22.5 kW	25.5 kW	30 kW
Max. input voltage	1000 V							
Rated voltage	600 V							
Start-up voltage	180 V							
MPPT voltage range	160-850 V							
Max. input current	11 A / 11 A				22 A / 22 A			
Max. short circuit current	17.2 A / 17.2 A				34.3 A / 34.3 A			
MPPT number/Max. input strings number	2/2				2/4			

### Output AC

Rated output power	5 kW	6 kW	8 kW	10 kW	12 kW	15 kW	17 kW	20 kW
Max. apparent output power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA	16.5 kVA	18.7 kVA	22 kVA
Max. output power	5.5 kW	6.6 kW	8.8 kW	11 kW	13.2 kW	16.5 kW	18.7 kW	22 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V							
Rated grid frequency	50 Hz / 60 Hz							
Rated grid output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	22.8 A / 21.7 A	25.8 A / 24.6 A	30.4 A / 28.9 A
Max. output current	7.9 A	9.5 A	12.7 A	15.9 A	19.1 A	23.8 A	27 A	31.8 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)							
THDi	<1.5%							
DC injection current	<0.5% I <sub>n</sub>							

### Efficiency

Max. efficiency	98.3%				98.7%			
EU efficiency	97.8%				98.1%			

### Protection

DC reverse-polarity protection	Yes							
Short circuit protection	Yes							
Output over current protection	Yes							
Surge protection	Yes							
Grid monitoring	Yes							
Anti-islanding protection	Yes							
Temperature protection	Yes							
Integrated AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>							
Integrated DC switch	Yes							

### General Data

Dimensions (W*H*D)	310*563*219 mm							
Weight	17.3 kg		18 kg		18.9 kg		19.8 kg	
Topology	Transformerless							
Self consumption (night)	<1 W							
Operating ambient temperature range	-25 ~ +60°C							
Relative humidity	0-100%							
Ingress protection	IP65							
Noise emission (typical)	<30 dB(A)				<60 dB(A)			
Cooling concept	Natural convection				Intelligent redundant fan-cooling			
Max. operation altitude	4000 m							
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)							
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4							

### Features

DC connection	MC4 connector							
AC connection	Quick connection plug							
Display	LCD							
Communication	RS485, Optional: DLS-W, DLS-G							

(1) Activation required.