

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

Solis Three Phase Inverters



360 degree

## Features:

- ▶ Max. efficiency 98.7%
- ▶ Complies with Western Power, SA, VIC, QLD, and NSW grid requirements
- ▶ Integrate with adjustable Volt-Watt and Volt-Var function
- ▶ DRM integrated, fully comply with AS4777.2:2015
- ▶ Built-in DC-PV2 Switch, comply with AS/NZS 5033 requirements
- ▶ Support 24h consumption monitoring with a smart meter
- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ THDi<1.5%, low harmonic distortion against grid
- ▶ Integrated Export Power Manager(EPM)
- ▶ Multiple protections functions
- ▶ Voltage active power and reactive power



## Model:

- |                  |                     |
|------------------|---------------------|
| Solis-3P5K-4G-AU | Solis-3P5K-4G-AU-MX |
| Solis-3P6K-4G-AU | Solis-3P8K-4G-AU    |
| Solis-3P9K-4G-AU | Solis-3P10K-4G-AU   |
| Solis-3P12K-4G   | Solis-3P15K-4G      |
| Solis-3P17K-4G   | Solis-3P20K-4G      |

## Datasheet

Model Name	Solis-3P5K-4G-AU	Solis-3P5K-4G-AU-MX	Solis-3P6K-4G-AU	Solis-3P8K-4G-AU	Solis-3P9K-4G-AU	Solis-3P10K-4G-AU	Solis-3P12K-4G	Solis-3P15K-4G	Solis-3P17K-4G	Solis-3P20K-4G
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### Input DC

Recommended max. PV power	10 kW	10 kW	12 kW	12 kW	13.5 kW	15 kW	18 kW	22.5 kW	24 kW	24 kW
Max. input voltage	1000 V									
Rated voltage	600 V									
Start-up voltage	180 V									
MPPT voltage range	160-850 V									
Max. input current	22 A / 11 A				22 A / 22 A					
Max. short circuit current	34.3 A / 17.2 A				34.3 A / 34.3 A					
MPPT number/Max. input strings number	2/3				2/4					

### Output AC

Rated output power	5 kW	4.999 kW	6 kW	8 kW	9 kW	10 kW	12 kW	15 kW	17 kW	20 kW
Max. apparent output power	5.5 kVA	4.999 kVA	6.6 kVA	8.8 kVA	9.9 kVA	11 kVA	13.2 kVA	16.5 kVA	18.7 kVA	22 kVA
Max. output power	5.5 kW	4.999 kW	6.6 kW	8.8 kW	9.9 kW	11 kW	13.2 kW	16.5 kW	18.7 kW	22 kW
Rated grid voltage	3/N/PE, 230 V / 400 V									
Rated grid frequency	50 Hz									
Rated grid output current	7.2 A	7.2 A	8.7 A	11.5 A	13 A	14.4 A	17.3 A	21.7 A	24.6 A	28.9 A
Max. output current	7.9 A	7.9 A	9.5 A	12.7 A	14.3 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%									

### 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									
Integrated DC switch	Yes (PV2 Switch)									

### General Data

Dimensions (W*H*D)	310*563*219 mm									
Weight	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									
Cooling concept	Intelligent redundant fan-cooling									
Max. operation altitude	4000 m									
Grid connection standard	AS/NZS 4777.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530									
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: Wi-Fi, GPRS									