



# 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 (optional), 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-3P8K-4G-AU-MX	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-3P8K-4G-AU-MX	Solis-3P9K-4G-AU	Solis-3P10K-4G-AU	Solis-3P12K-4G	Solis-3P15K-4G	Solis-3P17K-4G	Solis-3P20K-4G	
<b>Input DC</b>												
Recommended max. PV power	10 kW	10 kW	12 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	30 A / 15 A							30 A / 30 A				
MPPT number/Max. input strings number	2/2							2/4				
<b>Output AC</b>												
Rated output power	5 kW	4.999 kW	6 kW	8 kW	7.999 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	7.999 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	7.999 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	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	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%											
<b>Efficiency</b>												
Max. efficiency	98.3%					98.7%						
EU efficiency	97.8%					98.1%						
<b>Protection</b>												
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 DC switch	Optional (PV2 Switch)											
<b>General Data</b>												
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											
<b>Features</b>												
DC connection	MC4 connector											
AC connection	Quick connection plug											
Display	LCD											
Communication	RS485, Optional: Wi-Fi, GPRS											