

Solis-1P(3-6)K-4G

Solis Single Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 98.1%
- ▶ Complies with all state network requirements
- ▶ Integrate with adjustable Volt-Watt and Volt-Var function
- ▶ DRM integrated, fully comply with AS/NZS 4777.2:2020
- ▶ Built-in DC-PV2 Switch (optional), comply with AS/NZS 5033 requirements
- ▶ Support 24h consumption monitoring with a smart meter
- ▶ Super high frequency switching technology
- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ Integrated Export Power Manager(EPM)
- ▶ Compact and lightweight
- ▶ Voltage active power and reactive power



Model:

Solis-1P3K-4G	Solis-1P3.6K-4G
Solis-1P4K-4G	Solis-1P4.6K-4G
Solis-1P5K-4G	Solis-1P5K-4G-MX
Solis-1P6K-4G	

Datasheet

Model Name	Solis-1P3K-4G	Solis-1P3.6K-4G	Solis-1P4K-4G	Solis-1P4.6K-4G	Solis-1P5K-4G	Solis-1P5K-4G-MX	Solis-1P6K-4G
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Input DC

Recommended max. PV power	4 kW	4.8 kW	5.3 kW	6.1 kW	6.7 kW	6.7 kW	8 kW
Max. input voltage	600 V						
Rated voltage	330 V						
Start-up voltage	120 V						
MPPT voltage range	90-520 V						
Max. input current	11 A / 11 A						
Max. short circuit current	17.2 A / 17.2 A						
MPPT number/Max. input strings number	2/2						

Output AC

Rated output power	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	4.999 kW	6 kW
Max. apparent output power	3.3 kVA	4 kVA	4.4 kVA	5 kVA	5 kVA	4.999 kVA	6 kVA
Max. output power	3.3 kW	4 kW	4.4 kW	5 kW	5 kW	4.999 kW	6 kW
Rated grid voltage	1/N/PE, 230 V						
Rated grid frequency	50 Hz						
Rated grid output current	13.0 A	15.7 A	17.4 A	20.0 A	21.7 A	21.7 A	27.3 A
Max. output current	15.7 A	16.0 A	21.0 A	21.7 A	21.7 A	21.7 A	27.3 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)						
THDi	<3%						

Efficiency

Max. efficiency	97.8%	98.1%
EU efficiency	97.1%	97.3%

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 DC switch	Optional (PV2 Switch)

General Data

Dimensions (W*H*D)	310*543*160 mm
Weight	11.5 kg
Topology	Transformerless
Self consumption (night)	<1 W
Operating ambient temperature range	-25 ~ +60°C
Relative humidity	0-100%
Ingress protection	IP65
Cooling concept	Natural convection
Max. operation altitude	2000 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 61000-6-2/-3

Features

DC connection	MC4 connector
AC connection	Quick connection plug
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS
Country of manufacture	China