

Solis-1P(2.5-6)K-4G

Solis Single Phase Inverters



360 degree

Features:

- ▶ Over 98.1% Max. efficiency
- ▶ Super high frequency switching technology
- ▶ Wide voltage range and low startup voltage
- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ Intergrated Export Power Manager (EPM)
- ▶ Compact and lightweight
- ▶ Friendly and adaptable connection to the grid



Model:

Solis-1P2.5K-4G
Solis-1P3.6K-4G
Solis-1P4.6K-4G
Solis-1P6K-4G

Solis-1P3K-4G
Solis-1P4K-4G
Solis-1P5K-4G

Datasheet

Model Name	Solis-1P2.5K-4G	Solis-1P3K-4G	Solis-1P3.6K-4G	Solis-1P4K-4G	Solis-1P4.6K-4G	Solis-1P5K-4G	Solis-1P6K-4G
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Input DC

Recommended max. PV power	3kW	3.5kW	4.2kW	4.6kW	5.3kW	5.8kW	6.6kW
Max. input voltage	550V	600V					
Rated voltage	250V	330V					
Start-up voltage	60V	120V					
MPPT voltage range	50-450V	90-520V					
Max. input current	11A/11A						
Max. short circuit current	17.2A/17.2A						
MPPT number/Max. input strings number	2/2						

Output AC

Rated output power	2.5kW	3kW	3.6kW	4kW	4.6kW	5kW	6kW
Max. apparent output power	2.8kVA	3.3kVA	4kVA	4.4kVA	5kVA	5.5kVA	6kVA
Max. output power	2.8kW	3.3kW	4kW	4.4kW	5kW	5.5kW	6kW
Rated grid voltage	1/N/PE, 220/230V						
Rated grid frequency	50/60Hz						
Rated grid output current	11.4A/10.9A	13.6A/13.0A	16.0A/15.7A	18.2A/17.4A	20.9A/20.0A	22.7A/21.7A	27.3A
Max. output current	13.3A	15.7A	16.0A	21.0A	23.8A	25.0A	27.3A
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						

General Data

Dimensions (W*H*D)	310*543*160 mm						
Weight	11.5kg						
Topology	Transformerless						
Self consumption	<1W (night)						
Operating ambient temperature range	-25 ~ +60°C						
Relative humidity	0-100%						
Ingress protection	IP65						
Cooling concept	Natural convection						
Max. operation altitude	4000m						
Grid connection standard	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, UNE 206006, UNE 206007-1, IEC 61727						
Safety/EMC standard	IEC 62109-1/-2, IEC 62116, EN 61000-6-2/-3						

Features

DC connection	MC4 connector						
AC connection	Quick connection plug						
Display	LCD, 2x20 Z						
Communication	RS485, Optional: Wi-Fi, GPRS						