

Solis-1P(7-8)K-5G

Solis Single Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 98.1%
- ▶ 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-1P7K-5G

Solis-1P8K-5G

Datasheet

Model Name	Solis-1P7K-5G	Solis-1P8K-5G
Input DC		
Recommended max. PV power	9.1kW	10.4kW
Max. input voltage	600V	
Rated voltage	330V	
Start-up voltage	120V	
MPPT voltage range	90-520V	
Max. input current	12.5A/25A	
Max. short circuit current	19.5A/39A	
MPPT number/Max. input strings number	2/3	
Output AC		
Rated output power	7kW	8kW
Max. apparent output power	7.7kVA	8kVA
Max. output power	7.7kW	8kW
Rated grid voltage	1/N/PE, 220/230V	
Rated grid frequency	50/60Hz	
Rated grid output current	30.4A	34.8A
Max. output current	33.5A	34.8A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
Efficiency		
Max. efficiency	98.1%	
EU efficiency	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*180 mm	
Weight	13.3kg	
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 61000-6-1/-2/-3/-4	
Features		
DC connection	MC4 connector	
AC connection	Quick connection plug	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS	