

Solis-1P8K-5G

Solis 5G Single Phase Inverters



Features:

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



Model:

Solis-1P8K-5G

Datasheet

Model Name	Solis-1P8K-5G
Input DC	
Max. input power	10400W
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	8000W
Max. apparent output power	8000VA
Max. output power	8000W
Rated grid voltage	1/N/PE, 220V/230V
Rated grid frequency	50Hz/60Hz
Rated grid output current	34.8A
Max. output current	34.8A
Power Factor	>0.99 (Adjustable from 0.8 leading to 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 (DC/AC)	Yes
Grid monitoring	Yes
Islanding protection	Yes
Temperature protection	Yes
Integrated DC switch	Optional
General Data	
Dimensions (W*H*D)	310mm*543mm*180mm
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, IEC61727
Safety/EMC standard	IEC 62109-1/-2, IEC62116, EN 61000-6-1/-2/-3/-4
Features	
DC connection	MC4
AC connection	Terminal connectors
Display	LCD, 2×20 Z.
Communication	RS485; WiFi/GPRS (optional)