

Solis-(100-125)K-5G

Solis Three Phase Inverters



Model:

400V: Solis-100K-5G Solis-110K-5G

480V: Solis-125K-HV-5G



360 degree



Efficient

- ▶ 10 MPPTs, max. efficiency 99.0%
- ▶ > 150% DC/AC ratio
- ▶ High power tracking density 90MPPT/MW
- ▶ Compatible with bifacial modules



Safe

- ▶ AFCI protection, proactively reduces fire risk
- ▶ Built-in PID recovery for better module performance (optional)
- ▶ Type I SPD for AC (optional)
- ▶ Overvoltage load reduction and leakage current suppression technology, low failure rate
- ▶ Globally recognised branded componentry for longer life



Smart

- ▶ Night SVG function
- ▶ Intelligent string monitoring. Smart I-V curve scan
- ▶ Remote firmware upgrade with simple operation



Economic

- ▶ Power line communication (PLC) (optional)
- ▶ Support "Y" type connection in DC side
- ▶ Supports aluminium wire access to reduce cost

Datasheet

Model Name	Solis-100K-5G	Solis-110K-5G	Solis-125K-HV-5G
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Input DC

Max. input voltage	1100 V		
Rated voltage	600 V		720 V
Start-up voltage	195 V		
MPPT voltage range	180-1000 V		
Max. input current	10*26 A		
Max. short circuit current	10*40 A		
MPPT number/Max. input strings number	10/20		

Output AC

Rated output power	100 kW	110 kW	125 kW
Max. apparent output power	110 kVA	121 kVA	137.5 kVA
Max. output power	110 kW	121 kW	137.5 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		3/PE, 480 V
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	152.0 A / 144.3 A	167.1 A / 158.8 A	150.4 A
Max. output current	167.1 A	183.8 A	165.4 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		

Efficiency

Max. efficiency	98.7%		99.0%
EU efficiency	98.3%		98.5%

Protection

DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection	DC Type II / AC Type II (AC Type I optional)
Grid monitoring	Yes
Anti-islanding protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Integrated PID recovery	Optional
Integrated AFCI (DC arc-fault circuit protection)	Yes
Integrated DC switch	Yes
Integrated AC switch	Optional

General Data

Dimensions (W*H*D)	1065*567*344.5 mm
Weight	84 kg
Topology	Transformerless
Self consumption (night)	<2 W
Operating ambient temperature range	-25 ~ +60°C
Relative humidity	0-100%
Ingress protection	IP66
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
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,DEWA
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4

Features

DC connection	MC4 connector
AC connection	OT terminal (max. 185 mm ²)
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS, PLC