

Solis-(100-125)K-5G

Solis Three Phase Inverters

Efficient

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

Smart

- Night SVG function
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

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

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector
- Supports aluminium wire access to reduce cost

Models:

Solis-100K-5G

Solis-110K-5G

Solis-125K-HV-5G



360° View

DATASHEET

Solis-(100-125)K-5G

Models	100K	110K	125K-HV
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	
Temperature protection		Yes	
Strings monitoring		Yes	
I/V Curve scanning		Yes	
Integrated AFCI (DC arc-fault circuit protection)		Yes ⁽¹⁾	
Integrated PID recovery		Optional	
Integrated DC switch		Yes	
Integrated AC switch		Optional	
General Data			
Dimensions (W*H*D)	1065*567*344.5 mm		
Weight	91 kg		
Topology	Transformerless		
Self-consumption (night)	<2 W		
Operating ambient temperature range	-30 ~ +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-AR-N 4110, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, TOR, UNE 206006, UNE 206007-1, CEI 0-21, 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		

(1) Activation required.