

Solis-(80-110)K-5G

Solis Three Phase Grid-Tied Inverters

Efficient

- 9/10 MPPTs, max. efficiency 98.8%
- > 150% DC/AC ratio
- Compatible with bifacial modules

Smart

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

Safe

- IP66
- Built-in PID recovery for better module performance (optional)
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- DC side supports "Y" connector

Models:

Solis-80K-5G

Solis-100K-HV-5G

Solis-110K-BHV-5G



360° View

DATASHEET

Solis-(80-110)K-5G

Models	80K	100K-HV	110K-BHV
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	9*26 A		10*26 A
Max. short circuit current	9*40 A		10*40 A
MPPT number/Max. input strings number	9/18		10/20
Output AC			
Rated output power	80 kW	100 kW	110 kW
Max. apparent output power	88 kVA	110 kVA	121 kVA
Max. output power	88 kW	110 kW	121 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	3/PE, 480 V	3/PE, 540 V
Rated grid frequency		50 Hz / 60 Hz	
Rated grid output current	121.6 A / 115.5 A	120.3 A	117.6 A
Max. output current	133.7 A	132.3 A	129.4 A
Power factor		>0.99 (0.8 leading - 0.8 lagging)	
THDi		<3%	
Efficiency			
Max. efficiency	98.7%		98.8%
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	
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)		1050*567*314.5 mm (with AC switch)	
Weight		82 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		G98 or G99, VDE-AR-N 4105 / VDE-AR-N 4110 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530	
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.