

Solis-(80-110)K-5G-PRO

Solis Three Phase Inverters

Efficient

- 6/8 MPPTs, max. efficiency 98.5%
- > 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
- AFCI protection, proactively reduces fire risk
- Built-in PID recovery for better module performance (optional)
- 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-80K-5G-PRO

Solis-100K-5G-PRO

Solis-110K-5G-PRO



DATASHEET

Solis-(80-110)K-5G-PRO

Models	80K	100K	110K
Input DC			
Max. input voltage		1100 V	
Rated voltage		600 V	
Start-up voltage		180 V	
MPPT voltage range		160-1000 V	
Max. input current	40 A / 32 A / 40 A / 32 A / 40 A / 32 A	40 A / 32 A / 40 A / 32 A / 40 A / 32 A / 40 A / 32 A	
Max. short circuit current	6*50 A		8*50 A
MPPT number/Max. input strings number	6/12		8/16
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	
Rated grid frequency		50 Hz / 60 Hz	
Rated grid output current	121.6 A / 115.5 A	152.0 A / 144.3 A	167.1 A / 158.8 A
Max. output current	133.7 A	167.1 A	183.8 A
Power factor		>0.99 (0.8 leading - 0.8 lagging)	
THDi		<3%	
DC injection current		<0.5% In	
Efficiency			
Max. efficiency		98.5%	
EU efficiency		98.0%	
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)	1065*585*363 mm (with AC switch)	1183*585*363 mm	
Weight	79.5 kg	93 kg	
Topology		Transformerless	
Self-consumption (night)		<2 W	
Operating ambient temperature range		-30 ~ +60°C	
Relative humidity		0-100%	
Ingress protection		IP66	
Noise emission (typical)		≤65 dB(A)	
Cooling concept		Intelligent redundant fan-cooling	
Max. operation altitude		4000 m	
Grid connection standard		G99, IEC61727, EN50549-1/2, VDE4110	
Safety/EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4	
Features			
DC connection		MC4 connector	
AC connection		OT terminal (max. 240 mm ²)	
Display		LCD	
Communication		RS485, Optional: S3-WiFi-ST, S3-GRPS-ST, PLC	

(1) Activation required.