

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

### Solis Three Phase Grid-Tied 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

#### Models:

Solis-80K-5G-PRO

Solis-100K-5G-PRO

Solis-110K-5G-PRO



## DATASHEET

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

Models	80K	100K	110K
<b>Input DC</b>			
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
<b>Output AC</b>			
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% I <sub>n</sub>	
<b>Efficiency</b>			
Max. efficiency		98.5%	
EU efficiency		98.0%	
<b>Protection</b>			
DC reverse-polarity protection		Yes	
Short circuit protection		Yes	
Output over current protection		Yes	
Insulation resistance monitoring		Yes	
Residual current detection		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 <sup>(1)</sup>	
Integrated PID recovery		Optional	
Integrated DC switch		Yes	
Integrated AC switch		Optional	
<b>General Data</b>			
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	
Safety/EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4	
<b>Features</b>			
DC connection		MC4 connector	
AC connection		OT terminal (max. 240 mm <sup>2</sup> )	
Display		LCD	
Communication		RS485, Optional: S3-WiFi-ST, S3-GRPS-ST, PLC	

(1) Activation required.