

Solis-(80)K-5G-PRO

Solis Three Phase Inverters

>> Models:

Solis-80K-5G-PRO



Efficient

- ▣ 6 MPPTs, max. efficiency 98.7%
- ▣ > 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
- ▣ 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

DATASHEET

Solis-(80)K-5G-PRO

Models

80K

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	36 A / 32 A / 36 A / 32 A / 36 A / 32 A
Max. short circuit current	6*50 A
MPPT number/Max. input strings number	6/12

Output AC

Rated output power	80 kW
Max. apparent output power	88 kVA
Max. output power	88 kW
Rated grid voltage	3/N/PE, 220 V / 380 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	121.6 A
Max. output current	133.7 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<3%

Efficiency

Max. efficiency	98.7%
EU efficiency	98.3%

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 DC switch	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾

General Data

Dimensions (W*H*D)	1183*585*363 mm
Weight	76 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	G99, IEC61727
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: Wi-Fi, GPRS, PLC

(1) Activation required.