

Solis Three Phase Inverters

» Solis-80K-5G



360 degree

Efficient

- ▶ 9 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
- ▶ 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
- ▶ Supports aluminium wire access to reduce cost

Model: 400V: Solis-80K-5G

Datasheet

Model Name	Solis-80K-5G
Input DC	
Max. input voltage	1100 V
Rated voltage	600 V
Start-up voltage	195 V
MPPT voltage range	180-1000 V
Max. input current	9*26 A
Max. short circuit current	9*40 A
MPPT number/Max. input strings number	9/18
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, 230 V / 400 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	121.6 A / 115.5 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 PID recovery	Optional
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
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	-25 ~ +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 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.