

Solis-(50-60)K-LV-5G

Solis Three Phase Inverters



Model:

220V: Solis-50K-LV-5G Solis-60K-LV-5G



360 degree



Efficient

- ▶ 6/8 MPPTs, max. efficiency 98.5%
- ▶ > 170% DC/AC ratio
- ▶ High power tracking density 130MPPT/MW
- ▶ Compatible with bifacial modules



Safe

- ▶ AFCI protection, proactively reduces fire risk
- ▶ Built-in PID recovery for better module performance (optional)
- ▶ Type I SPD for AC (optional)
- ▶ Overvoltage load reduction and leakage current suppression technology, low failure rate
- ▶ Globally recognised branded componentry for longer life



Smart

- ▶ Night SVG function
- ▶ Intelligent string monitoring. Smart I-V curve diagnosis
- ▶ Remote firmware upgrade with simple operation



Economic

- ▶ Power line communication (PLC) (optional)
- ▶ Support "Y" type connection in DC side
- ▶ Supports aluminium wire access to reduce cost

Datasheet

Model Name	Solis-50K-LV-5G	Solis-60K-LV-5G
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Input DC

Max. input voltage	1100 V	
Rated voltage	450 V	
Start-up voltage	195 V	
MPPT voltage range	180-1000 V	
Max. input current	6*26 A	8*26 A
Max. short circuit current	6*40 A	8*40 A
MPPT number/Max. input strings number	6/12	8/16

Output AC

Rated output power	50 kW	60 kW
Max. apparent output power	55 kVA	66 kVA
Max. output power	55 kW	66 kW
Rated grid voltage	3/(N)/PE, 220 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	131.2 A	157.5 A
Max. output current	144.3 A	173.2 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	

Efficiency

Max. efficiency	98.5%
EU efficiency	98.1%

Protection

DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection	DC Type II / AC Type II (AC Type I optional)
Grid monitoring	Yes
Anti-islanding protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Anti-PID function	Optional
Integrated DC switch	Yes

General Data

Dimensions (W*H*D)	1065*567*344.5 mm
Weight	84 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	IEC 61727, IEC 62116, C10/11, VDE 4105, IEEE 1547
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4

Features

DC connection	MC4 connector
AC connection	OT terminal
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS, PLC