

Solis-(50-75)K-LV-5G-PRO

Solis Three Phase Grid-Tied Inverters

Efficient

- 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-50K-LV-5G-PRO

Solis-60K-LV-5G-PRO

Solis-75K-LV-5G-PRO



DATASHEET

Solis-(50-75)K-LV-5G-PRO

Models	50K	60K	75K
Input DC			
Max. input voltage		800 V	
Rated voltage		450 V	
Start-up voltage		180 V	
MPPT voltage range		160-800 V	
Max. input current	8*20A		12*20A
Max. short circuit current		8*50 A	
MPPT number/Max. input strings number	8/8		8/12 ⁽¹⁾
Output AC			
Rated output power	50 kW	60 kW	75 kW
Max. apparent output power	55 kVA	66 kVA	75 kVA
Max. output power	55 kW	66 kW	75 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	196.8 A
Max. output current	144.3 A	173.2 A	196.8 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
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 ⁽²⁾		
Integrated PID Recovery	Optional		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
General Data			
Dimensions (W*H*D)	1183*585*363 mm		
Weight	93 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	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		

(1) One string per MPPT (PV2, PV4, PV6, PV8). (2) Activation required.