

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.