

## 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
- Nighttime PID recovery function (optional)

#### 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
<b>Input DC</b>			
Max. input voltage		800 V	
Rated voltage		450 V	
Start-up voltage		180 V	
MPPT voltage range		160 - 800 V	
Max. input current	8 × 20 A		12 × 20 A
Max. short circuit current		8 × 50 A	
MPPT number / Max. input strings number	8 / 8		8 / 12 <sup>(1)</sup>
<b>Output AC</b>			
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 / 230 V		
Rated grid frequency	50 Hz / 60 Hz		
Rated grid output current	131.2 A / 125.5 A	157.5 A / 150.6 A	196.8 A / 188.3 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%		
<b>Efficiency</b>			
Max. efficiency	98.5%		
EU efficiency	98.0%		
<b>Protection</b>			
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 2.0	Optional		
Integrated PID Recovery	Optional		
Integrated DC switch	Yes		
Integrated AC switch	Optional		
<b>General Data</b>			
Dimensions (W × H × D)	1183 × 585 × 363 mm (with no AC switch); 1295 × 585 × 363 mm (with AC switch)		
Weight	98 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 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		
<b>Features</b>			
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).