

Solis-(80-110)K-5G-PRO

Solis Three Phase Inverters

>> Models:

Solis-80K-5G-PRO

Solis-100K-5G-PRO

Solis-110K-5G-PRO



Efficient

- 6/8 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
- 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

DATASHEET**Solis-(80-110)K-5G-PRO**

Models	80K	100K	110K		
Input DC					
Max. input voltage		1100 V			
Rated voltage		600 V			
Start-up voltage		180 V			
MPPT voltage range		160-1000 V			
Max. input current	36 A / 32 A / 36 A / 32 A / 36 A / 32 A	36 A / 32 A / 36 A / 32 A / 36 A / 32 A / 32 A			
Max. short circuit current	6*50 A	8*50 A			
MPPT number/Max. input strings number	6/12	8/16			
Output AC					
Rated output power	80 kW	100 kW	110 kW		
Max. apparent output power	88 kVA	110 kVA	121 kVA		
Max. output power	88 kW	110 kW	121 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	152.0 A / 144.3 A	167.1 A / 158.8 A		
Max. output current	133.7 A	167.1 A	183.8 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 ⁽¹⁾				
Integrated DC switch	Yes				
General Data					
Dimensions (W*H*D)	1183*585*363 mm				
Weight	77 kg	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	G99, IEC61727, EN50549-1/2, VDE4110				
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4				
Features					
DC connection	MC4 connector				
AC connection	OT terminal (max. 240 mm ²)				
Display	LCD				
Communication	RS485, Optional: Wi-Fi, GPRS, PLC				

(1) Activation required.