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Solis-(100-110)K-5G

Solis Three Phase Inverters

Model:

400V: Solis-100K-5G Solis-110K-5G

360 degree

Efficient

- 10 MPPTs, max. efficiency 98.7%
- > 150% DC/AC ratio
- High power tracking density 90MPPT/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)
- Globally recognised branded componentry for longer life

Smart

- Night SVG function
- Intelligent string monitoring. Smart I-V curve scan
- 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

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Datasheet

Model Name	Solis-100K-5G	Solis-110K-5G
Input DC		
Max. input voltage	1100 V	
Rated voltage	600 V	
Start-up voltage	195 V	
MPPT voltage range	180-1000 V	
Max. input current	10*26 A	
Max. short circuit current	10*40 A	
MPPT number/Max. input strings number	10/20	
Output AC		
Rated output power	100 kW	110 kW
Max. apparent output power	110 kVA	121 kVA
Max. output power	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	152.0 A / 144.3 A	167.1 A / 158.8 A
Max. output current	167.1 A	183.8 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
DC injection current	<0.5% In	
Efficiency		
Max. efficiency	98.7%	
EU efficiency	98.3%	
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 AFCI (DC arc-fault circuit protection)	Yes	
Integrated DC switch	Yes	
Integrated AC switch	Optional	
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	
Noise emission (typical)	≤65 dB(A)	
Cooling concept	Intelligent redundant fan-cooling	
Max. operation altitude	4000 m	
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)	
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-2/-4	
Features		
DC connection	MC4 connector	
AC connection	OT terminal (max. 185 mm^2)	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS, PLC	