

Solis-(100-110)K-5G-SA

Solis Three Phase Inverters



Features:

- ▶ 98.7% Max. efficiency
- ▶ Wide voltage range and low startup voltage
- ▶ 10 MPPT design with precise MPPT algorithm
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, supporting over 6MW paralleled in one transformer
- ▶ Perfect commercial site monitoring solution
- ▶ Intelligent redundant fan-cooling
- ▶ Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- ▶ Fuse free design to avoid fire hazard
- ▶ Type II surge arrester for both DC and AC, type I surge arrester optional
- ▶ Leakage current repression technology
- ▶ Volt-watt work mode integrated
- ▶ DC input reverse alarm
- ▶ Optional anti-PID function integrated
- ▶ Integrated DC switches, AC switch optional



Model:

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

Datasheet

Model Name	Solis-100K-5G-SA	Solis-110K-5G-SA
Input DC		
Max. input voltage	1100V	
Rated voltage	600V	
Start-up voltage	195V	
MPPT voltage range	180-1000V	
Max. input current	10*26A	
Max. short circuit current	10*40A	
MPPT number/Max. input strings number	10/20	
Output AC		
Rated output power	100kW	110kW
Max. apparent output power	110kVA	121kVA
Max. output power	110kW	121kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V	
Rated grid frequency	50/60Hz	
Rated grid output current	152.0A	167.1A
Max. output current	167.1A	183.8A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
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 * 344.5mm(to be determined)	
Weight	84 kg(to be determined)	
Topology	Transformerless	
Self consumption	<2W (night)	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP66	
Cooling concept	Intelligent redundant fan-cooling	
Max. operation altitude	4000m	
Grid connection standard	NRS 097-2-1	
Safety/EMC standard	IEC 62109-1/-2, IEC 62116, EN 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	