

Solis-(100-110)K-5G, Solis-125K-HV-5G

Solis Three Phase Inverters



Features:

- ▶ 99% 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 Solis-110K-5G
- 480V:** Solis-125K-HV-5G

Datasheet

Model Name	Solis-100K-5G	Solis-110K-5G	Solis-125K-HV-5G
Input DC			
Max. input voltage		1100V	
Rated voltage	600V		720V
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	125kW
Max. apparent output power	110kVA	121kVA	137.5kVA
Max. output power	110kW	121kW	137.5kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V		3/PE, 480V
Rated grid frequency	50/60Hz		
Rated grid output current	152.0A	167.1A	150.4A
Max. output current	167.1A	183.8A	165.4A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
Efficiency			
Max. efficiency	98.7%		99.0%
EU efficiency	98.3%		98.5%
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)	1099.5*567*344.5 mm (with AC switch)		
Weight	84kg		
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	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, UNE 206006, UNE 206007-1, IEC 61727, DEWA		
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, 2x20 Z		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		