

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)
- ▶ Overvoltage load reduction and leakage current suppression technology, low failure rate
- ▶ 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

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%			
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			
Integrated PID recovery	Optional			
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾			
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			
Cooling concept	Intelligent redundant fan-cooling			
Max. operation altitude	4000 m			
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, IEC61727, DEWA			
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4			
Features				
DC connection	MC4 connector			
AC connection	OT terminal (max. 185 mm²)			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS, PLC			

(1) Activation required.