

Solis-(80-110)K-5G

Solis Three Phase Inverters



Model:

400V: Solis-80K-5G **480V:** Solis-100K-HV-5G **540V:** Solis-110K-BHV-5G



360 degree



Efficient

- ▶ 9/10 MPPTs, max. efficiency 99%
- ▶ > 150% DC/AC ratio
- ▶ Compatible with bifacial modules



Safe

- ▶ IP66
- ▶ Built-in PID recovery for better module performance (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

Datasheet

Model Name	Solis-80K-5G	Solis-100K-HV-5G	Solis-110K-BHV-5G
Input DC			
Max. input voltage	1100V		
Rated voltage	600V	720V	
Start-up voltage	195V		
MPPT voltage range	180-1000V		
Max. input current	9*26A	10*26A	
Max. short circuit current	9*40A	10*40A	
MPPT number/Max. input strings number	9/18	10/20	
Output AC			
Rated output power	80kW	100kW	110kW
Max. apparent output power	88kVA	110kVA	121kVA
Max. output power	88kW	110kW	121kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V	3/PE, 480V	3/PE, 540V
Rated grid frequency	50/60Hz		
Rated grid output current	121.6A	120.3A	117.6A
Max. output current	133.7A	132.3A	129.4A
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		
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)	1050*567*314.5 mm (with AC switch)		
Weight	82kg		
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		
Communication	RS485, Optional: Wi-Fi, GPRS, PLC		