solis

Solis-(80-100)K-5G, Solis-(100-110)K-HV-5G Solis-136K-EHV-5G

Solis 5G Three Phase Inverters

Features:

- Over 99% Max. effciency
- Wide voltage range and low startup voltage
- 9/10 MPPT design with precise MPPT algorithm
- THDi<3%, low harmonic distortion against grid
- Anti-resonance, single transformer can connect 6M+ in parallel
- Perfect commercial site monitoring solution
- Intelligent redundancy fan
- Strings intelligent monitoring, Smart I-V Curve Dignosis supported
- Fuse free design to avoid fire hazard
- Type II surge arrester for both DC and AC, type I surge arrestor optional
- Intelligent redundancy fan
- Leakage current repression technology
- Volt-watt work mode integrated
- DC input reverse alarm
- Optional anti-PID function integrated
- Integrated AC & DC disconnect switches

Model:

400V:	Solis-80K-5G	Solis-100K-5G
480V:	Solis-100K-HV-5G	
540V:	Solis-110K-HV-5G	Solis-136K-EHV-5G

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Datasheet

Model Name	Solis-80K-5G	Solis-100K-5G	Solis-100K-HV-5G	Solis-110K-HV-5G	Solis-136K-EHV-5G
Input DC					
Max. input power	126kW	140kW	140kW	140kW	140kW
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	100kW	110kW	136kW
Max. apparent output power	88kVA	110kVA	110kVA	121kVA	136kVA
Max. output power	88kW	110kW	110kW	121kW	136kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V		3/PE, 480V	3/PE, 540V	
Rated grid frequency	50Hz/60Hz				
Rated grid output current	121.6A/115.5A	152.0A/144.3A	120.3A	117.6A	145.4A
Max. output current	133.7A	167.1A	132.3A	129.4A	145.4A
Power Factor	>0.99 (Adjustable from 0.8 leading to 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/AC)	Type II/Type II (Type I optional)				
Grid monitoring	Yes				
Islanding protection	Yes				
Temperature protection	Yes				
Strings monitoring	Yes				
I/V Curve scanning	Yes				
Anti-PID function	Optional				
Integrated AFCI (DC arc-fault circuit protection)	Optional				
Integrated DC switch	Yes				
Integrated AC switch	Optional				
General Data					
Dimensions (W*H*D)	1050mm*567mm*314.5mm				
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, IEC61727, DEWA				
Safety/EMC standard	IEC 62109-1/-2, IEC62116 & EN 61000-6-2/-4				
Features					
DC connection	MC4				
AC connection	OT Terminal connectors				
Display	LCD, 2×20 Z.				
Communication	RS485; WiFi/GPRS/PLC (optional)				

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