

Solis-(75-100)K-5G-US

Solis Next Generation Three Phase Inverters



Features:

- ▶ Over 99.0% Max. efficiency
- ▶ Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- ▶ 1.4 times DC overload ratio, maximum 10 MPPTs & 20 strings input
- ▶ Type II surge arrester for both DC and AC, type I surge arrester optional
- ▶ Integrated Arc Fault Circuit Interrupt (AFCI) option
- ▶ Optional anti-PID function integrated
- ▶ Integrated AC & DC disconnect switches
- ▶ PLC/Ethernet/RS485 multiple communication modes, flexible monitoring



Model:

480V: Solis-75K-5G-US Solis-80K-5G-US
 Solis-90K-5G-US Solis-100K-5G-US

Datasheet

Model	Solis-75K-5G-US	Solis-80K-5G-US	Solis-90K-5G-US	Solis-100K-5G-US
-------	-----------------	-----------------	-----------------	------------------

DC Values

Max. DC input power (watts)	126000	126000	140000	140000
Max. voltage (volts)	1000			
Rated voltage (volts)	720			
Startup voltage (volts)	195			
Operating MPPT voltage range (volts)	180-1000			
Max. usable input current per MPPT (amps)	9*26		10*26	
Max. short circuit input current (amps)	9*41		10*41	
Number of MPPTs/Max. input strings number	9/18		10/20	

AC Values

Nominal output power (watts)	75000	80000	90000	100000
Max. apparent output power (VA)	75000	80000	90000	100000
Max. continuous output power (watts)	75000	80000	90000	100000
Nominal grid voltage (volts)	480			
Nominal grid frequency (hertz)	60			
Operating phase	Three Phase			
Max. output current (amps)	90.2	96.2	108.3	120.3
Power Factor	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
Grid current THD	<3%			

Efficiency

Peak efficiency	99.0%
CEC weighted efficiency	98.50
MPPT efficiency	99.5%

Protection

DC reverse-polarity protection	Yes
Ground fault monitoring	Yes
Islanding protection	Yes
Integrated AFCI(DC arc-fault circuit protection)	Yes
Strings monitoring	Yes
I/V curve scanning	Yes
Anti-PID function	Optional
Rapid shutdown	Optional

General Data

Dimensions (width*height*depth)	TBD
Weight (inverter)/weight (wiring box)	TBD
Topology	Transformerless
Internal consumption (night)	<2W (without PID)
Relative humidity	0~100%
Ambient operating temperature range	-13°F to 140°F (-25°C to 60°C)
Storage environment	-40°F to 176°F (-32°C to 80°C)
Degree of protection	IP66
Cooling concept	Intelligent redundant cooling
Max. operating altitude without derating	13, 120ft (4000m)
Compliance	UL 1741, UL 1741SA, Rule 21, UL 1998, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1, Rule 21 Phase I and II compliant (ready for Phase III)

Features

DC connection	MC4
AC connection	OT Terminal connector
Display	LCD
Communication interface	RS485; PLC / Ethernet (optional)