

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

Solis Three Phase US Inverters



Model:

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

Ordering: Solis-(75-100)K-5G-US-AC

- SPRT (SunSpec MLRSD Transmitter)
- RSS (Tigo MLRSD Transmitter)
- PID (Potential Induced Degradation)



Efficient

- ▶ 8/9/10 MPPTs, max. efficiency 98.9% (CEC efficiency 98.2%)
- ▶ > 150% DC/AC ratio
- ▶ Compatible with bifacial modules



Safe

- ▶ IP66
- ▶ CA Rule 21 compliant and UL 1741 SA Certified
- ▶ Built-in PID recovery for better module performance (optional)
- ▶ Globally recognised branded component for longer life



Smart

- ▶ Intelligent string monitoring, Smart I-V curve scan
- ▶ Remote firmware upgrade with simple operation*



Economic

- ▶ Support "Y" type connection in DC side
- ▶ Support aluminium wire to reduce cost

Datasheet

Model Name	Solis-75K-5G-US	Solis-80K-5G-US	Solis-90K-5G-US	Solis-100K-5G-US
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Input DC

Max. input voltage	1000 V			
Rated voltage	600 V			
Start-up voltage	195 V			
MPPT voltage range	180-1000 V			
Max. input current	8*26 A	9*26 A	10*26 A	
Max. short circuit current	8*40 A	9*40 A	10*40 A	
MPPT number/Max. input strings number	8/16	9/18	10/20	

Output AC

Rated output power	75 kW	80 kW	90 kW	100 kW
Max. apparent output power	75 kVA	80 kVA	90 kVA	100 kVA
Max. output power	75 kW	80 kW	90 kW	100 kW
Rated grid voltage	3Φ/PE, 480 V			
Rated grid frequency	60 Hz			
Max. output current	90.2 A	96.2 A	108.3 A	120.3 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			

Efficiency

Max. efficiency	98.7%		98.9%	
CEC efficiency	98.1%		98.2%	

Protection

DC reverse-polarity protection	Yes
Ground fault monitoring	Yes
Anti-islanding protection	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Integrated PID recovery	Optional
Rapid shutdown	Yes
AC switch	Yes

General Data

Dimensions (W*H*D)	41.9*22.3*13.6 in (1065*567*344.5 mm)
Weight	187 lbs (85 kgs)
Topology	Transformerless
Self consumption (night)	<2 W
Relative humidity	0-100%
Operating ambient temperature range	-13°F~140°F (-25°C~60°C)
Storage environment	-40°F~176°F (-40°C~80°C)
Ingress protection	TYPE 4X
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	13,120 ft (4000 m)
Compliance	UL 1741, IEEE 1547, UL 1699B, UL 1998, FCC, UL 1741SA, California Rule 21

Features

DC connection	MC4 connector
AC connection	OT Terminal (max 350MCM)
Display	LCD
Communication	RS485, Ethernet, Optional: Wi-Fi, Cellular

* **Ordering guidelines:** Ordering guidelines: Determine the basic model from above and add your desired features as described on PG1
 Ex: Solis-75K-5G-US-AC-SPRT, (inverter with Sunspec MLRSD transmitter)