

Solis-1P(6-10)K-4G-US

Solis Single Phase US Inverters



Features:

- ▶ Max. efficiency 97.8% (CEC efficiency 97.5%)
- ▶ CA Rule 21 compliant and UL 1741 SA Certified
- ▶ protocol with optional cellular and Wi-Fi interface
- ▶ Built-in Sunspec certified module level rapid shutdown transmitter
- ▶ Optional Built-in Revenue Grade Meter, ANSI C12.20-2010 compliance
- ▶ Industry-leading 3 and 4 MPPT designs
- ▶ Integrated Arc Fault Circuit Interrupt (AFCI)
- ▶ 10 years standard warranty with extension options

Model:

Solis-1P6K-4G-US
Solis-1P7.6K-4G-US
Solis-1P9K-4G-US
Solis-1P10K-4G-US



Ordering: Solis-1P(6-10)K-4G-US-AFCI

- **SPRT** (SunSpec MLRSD Transmitter)
- **RGM-SPRT** (Revenue Grade Meter and Transmitter)
- **RSS** (Tigo MLRSD Transmitter)
- **RGM-RSS** (Revenue Grade Meter and Tigo MLRSD Transmitter)

Datasheet

Model Name	Solis-1P6K-4G-US	Solis-1P7.6K-4G-US	Solis-1P9K-4G-US	Solis-1P10K-4G-US
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Input DC

Recommended max. PV power	7.2 kW	9.1 kW	10.8 kW	11.5 kW
Max. input voltage	600 V			
Rated voltage	330 V			
Start-up voltage	120 V			
MPPT voltage range	100 - 500 V			
Max. input current	10 A / 10 A / 10 A		4*10 A	
Max. short circuit current	15.6 A / 15.6 A / 15.6 A		4*15.6 A	
MPPT number/Max. input strings number	3/3		4/4	

Output AC

Rated output power	6 kW	7.6 kW	9 kW	10 kW
Max. apparent output power	6 kVA	7.6 kVA	9 kVA	10 kVA
Max. output power	6 kW	7.6 kW	9 kW	10 kW
Rated grid voltage	1Φ/PE, 240 V / 208 V			
Rated grid frequency	60 Hz			
Max. output current for 240 V grid	25 A	31.7 A	37.5 A	41.7 A
Max. output current for 208 V grid	28.8 A	36.5 A	43.3 A	43.3 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			

Efficiency

Max. efficiency	97.8%
CEC efficiency	97.5%

Protection

DC reverse-polarity protection	Yes
Ground fault monitoring	Yes
Anti-islanding protection	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes
Integrated DC switch	Yes
Rapid shutdown	Built-In Certified Sunspec or Tigo Transmitter
Compliant MLRSD Products	TS4-A-F/2F, RSD-PFK, APSmart RSD-S-PLC

General Data

Dimensions (W*H*D)	13.1*28.8*9.8 in (333*732*249 mm)
Weight	45.2 lbs (20.5 kgs) / 45.6 lbs (20.7 kgs)
Topology	Transformerless
Self consumption (night)	<1 W
Relative humidity	0-100%
Operating ambient temperature range	-13°F to 140°F (-25°C to 60°C)
Storage environment	-13°F to 176°F (-25°C to 80°C)
Ingress protection	TYPE 4X
Cooling concept	Natural convection
Max. operation altitude	13,120 ft (4000 m)
Compliance	UL 1741, IEEE 1547, UL 1699B, UL 1998, FCC, UL 1741SA, California Rule 21, SRD-UL1741

Features

DC connection	2 knockout for 1"conduit at bottom, 4 knockout for 3/4"conduit at side and back, Screw clamp terminal
AC connection	2 knockout for 1"conduit at bottom, 4 knockout for 3/4"conduit at side and back, OT terminal
Display	LCD
Communication	RS485, Optional: Cellular, Wi-Fi