

Solis-30K-US-SW

Solis Three Phase US Inverters



Features:

- ▶ Compact and lightweight design inside a corrosion-resistant NEMA 4X enclosure
- ▶ Designed for all commercial, industrial, and utility-scale applications
- ▶ Transformer-less three phase design with 480 Vac output
- ▶ 98.6% efficient (98.3% CEC) with ultra-low start-up voltage
- ▶ Industry-leading 4 MPPT designs with fast (<5 sec) MPPT response times
- ▶ Integrated Arc Fault Circuit Interrupt (AFCI) option
- ▶ RS-485 Modbus communication protocol with Wi-Fi interface
- ▶ 7" LCD color display
- ▶ Web-based data monitoring with downloadable Solis Mobile App
- ▶ 10 years standard warranty with extension options



Model:

Solis-30K-US-SW

Datasheet

Model	Solis-30K-US-SW
DC Values	
Max. power per MPPT (watts)	13500
Max. DC input power (watts)	45000
Max. voltage (volts)	1000
Rated voltage (volts)	700
Startup voltage (volts)	350
Full power MPPT voltage range (volts)	417-800
Operating MPPT voltage range (volts)	200-800
Max. usable input current per MPPT (amps)	18*4
Max. short circuit input current (amps)	28.1*4
Number of MPPTs/inputs per MPPT	4/2
AC Values	
Nominal output power (watts)	30000
Max. apparent output power (VA)	30000
Max. continuous output power (watts)	30000
Operating voltage range (volts)	422.4-528
Nominal grid frequency (hertz)	60
Operating frequency range (hertz)	59.5-60.5
Operating phase	Three Phase
Max. output current (amps)	36.1
Max. overcurrent protection device (amps)	50
Max output fault current and duration	50,200ms
Power factor	0.8 leading ... 0.8 lagging
Grid current THD	<3%
DC injection current (mAmps)	<50
Efficiency	
Peak efficiency	98.6%
CEC weighted efficiency	98.3%
MPPT efficiency	>99.5%
Protection	
Ground fault monitoring	Yes
Islanding protection	Yes
Integrated AFCI (DC arc-fault circuit protection)	Yes
Integrated DC switch	Yes
Rapid shutdown	Yes
General Data	
Connections	4 knockout for 1.5" conduit at bottom and side. DC side Fuse terminal, AC side terminal block
Surge protection	DC class II and AC class III(optional)
Dimensions (width*height*depth)	21.1*38.0*14.1in(535*966*358mm)
Weight (inverter)/weight (wiring box)	127lbs (57.7kgs)/22.8lbs (10.2kgs)
Topology	Transformerless
Internal consumption	<1W (night)
Ambient operating temperature range	-13 °F to 140 °F (-25°C to 60°C)
Storage environment	-13 °F to 176 °F (-25°C to 80°C)
Enclosure type	NEMA 4X
Noise emission (typical)	<30dB(A)
Cooling concept	Natural convection
Max.operating altitude without derating	13, 120ft (4000m)
Compliance	UL 1741, UL 1741 SA, Rule 21 Phase I and II compliant (ready for Phase III), UL 1998, UL 1699B, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1
Features	
Communication protocol	Modbus RTU (Sunspec compliant)
Communication	Modbus with optional cellular and Wi-Fi
Display	7.0"LCD color screen display
Warranty	10 Years standard (extendable to 20 years)