

Solis-(25-40)K-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 480Vac 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-25K-US-SW Solis-30K-US-SW
 Solis-36K-US-SW Solis-40K-US-SW
 Solis-36K-US-F-SW Solis-40K-US-F-SW

Datasheet

Model	Solis-25K-US-SW	Solis-30K-US-SW	Solis-36K-US-SW	Solis-40K-US-SW	Solis-36K-US-F-SW	Solis-40K-US-F-SW
DC Values						
Max. power per MPPT(Watts)				13500		
Max. DC input power(Watts)	37500	45000	54000	54000	54000	54000
Max. voltage(Volts)				1000		
Startup voltage(Volts)				350		
Full power MPPT voltage range(Volts)	347-800	417-800	500-800	556-800	500-800	556-800
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 MPPT/Inputs per MPPT				4/2		
AC Values						
Nominal output power(Watts)	25000	30000	36000	40000	36000	40000
Max. apparent output power(VA)	25000	30000	36000	40000	36000	40000
Max. continuous output power(Watts)	25000	30000	36000	40000	36000	40000
Operating voltage range(Volts)	422.4-528(for 480V rated)					
Operating frequency range (Hertz)	59.5-60.5					
Operating phase	3/PE					
Max. output current(Amps)	30.1	36.1	43.3	48.1	43.3	48.1
Max. overcurrent protection device(Amps)	40	50	50	60	50	60
Power Factor	0.8leading ... 0.8lagging					
Grid current THD	<3%					
DC injection current(mAmps)	<50					
Efficiency						
Peak efficiency	98.6%					
CEC weighted efficiency	98.3%					
MPPTefficiency	>99.5%					
Protection						
Temperature protection	Yes					
DC reverse-polarity protection	Yes					
AC short circuit protection	Yes					
AC output overcurrent protection	Yes					
Output overvoltage protection-Varistor	Yes					
Ground fault monitoring	Yes					
Grid 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					
Dimensions(W*H*D)	21.1*38.0*14.1in(535*966*358mm)					
Weight (inverter)/Weight (wiring box)	127lb (57.7kg)/22.8lb(10.2kg)					
Topology	Transformerless					
Internal consumption	<1W (Night)					
Ambient operating temperature range	-25°C-60°C/-13°F-140°F					
Enclosure type	NEMA 4X					
Noise emission(typical)	<30dBA			<60dBA		
Cooling concept	Natural convection			Intelligent redundant cooling		
Max.operating altitude without derating	13120ft(4000m)					
Designed lifetime	>20years					
Compliance	UL 1741, UL 1741SA, UL 1998, UL 1699B, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1, Rule 21 Phaes I, II&III					
Features						
OTA update	Yes					
Communication protocol	Sunspec Modbus					
Communication	RS-485 optional cellular/WIFI					
Display	7.0"LCD color screen display					
Warranty	10 Years STD (Extendable to 20 Years)					