

Three

50kW
-
66kW

Solis Three Phase US Inverter

- ▶ Compact and lightweight design inside a corrosion-resistant NEMA 4X enclosure
- ▶ Designed for all commercial, industrial and utility scale applications, horizontal installation (15-90 degrees) for active cooled inverters
- ▶ Transformer-less three phase design with 480Vac output
- ▶ 98.8% efficient (98.4% CEC) with ultra-low start up voltage
- ▶ Industry-leading 4 MPPT designs with fast (<5 sec.) MPPT response times
- ▶ CA Rule 21 compliance and UL 1741 SA certified
- ▶ Optional built-in RGM
- ▶ RS485 Modbus communication protocol with Wi-Fi interface (optional GPRS/LAN)
- ▶ Integrated Arc Fault Circuit Interrupt (AFCI)
- ▶ Web based data monitoring with downloadable Solis Web App
- ▶ 10 Year Standard Warranty with extension options



Model:

Solis-50K-US

Solis-50K-US-F

Solis-60K-US-F

Solis-66K-US-F

Features:

Four

MPPT

Smart

Redundant
fan-cooling

WiFi/GPRS
/LAN

Real time
monitoring

THDi

<3%

Available on the iPhone
App Store

Available on the iPhone
App Store

NEMA 4X

Datasheet

Model	Solis-50K-US	Solis-50K-US-F	Solis-60K-US-F	Solis-66K-US-F
DC Values				
Max voltage(V)	1000			
Startup voltage(V)	200			
Operating MPPT voltage range(V)	200-850			
Max usable input current per MPPT(A)	22	28.5		
Number of MPPT/Inputs per MPPT	4/3		4/4	
AC Values				
Nominal output power(W)	50000	50000	60000	66000
Max. continuous output power(W)	50000	50000	60000	66000
Nominal grid voltage(V)	480			
Operating voltage range(V)	422.4-528			
Operating phase	Three			
Max. output current(A)	60.2	60.2	72.2	79.4
Max. overcurrent protection device(Amps)	80	80	90	100
Output power factor range	1 (default) and 0.8 leading ... 0.8 lagging adjustable			
Grid current THD	<3%			
DC injection current (A)	<50			
Operating frequency range(H)	59.5-60.5			
Efficiency				
Peak efficiency	98.8%			
CEC weighted efficiency	98.4%			
MPPT efficiency	>99.9%			
Protection				
DC reverse-polarity protection	Yes			
AC short circuit protection	Yes			
AC output overcurrent protection	Yes			
Output over voltage protection-Varistor	Yes			
Ground fault monitoring	Yes			
Grid monitoring	Yes			
Islanding protection	Yes			
Temperature protection	Yes			
Integrated DC switch	Yes			
Integrated AFCI(DC arc-fault circuit protection)	Yes			
General Data				
Dimensions(W*H*D)	24.8*40.7*13.9in (630*1034*354mm)			
Weight	165lb (75kg)	172lb (78kg)		
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(m/ft)	13120ft (4000m)			
Designed lifetime	>20 years			
Compliance	UL 1741, UL 1998, UL 1699B, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1			
Relative humidity range	0~100%			
Features				
Connections	4 knockout for 2" conduit at bottom and side. DC Input - Copper only 12-6AWG AC Input - Copper or aluminum 8-2AWG.Aluminum requires bi-metallic compatible terminal			
Display	LCD,2×20 Z.			
Interface	RS485, WiFi/GPRS/LAN(Optional)			
Warranty	10 Years STD (Extendable to 20 Years)			