Three

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
- Rs485 Modbus communication protocol with Wi-Fi interface (optional LAN)
- Integrated Arc Fault Circuit Interrupt (AFCI)
- Web based data monitoring with downloadable Solis Mobile App
- 10 Year Standard Warranty with extension options

Model:

Solis–66K-US-F

Features:

- Four MPPT
- Smart Redundant fan-cooling
- WiFi/LAN Real time monitoring
- THDi <3%
- Available on the iPhone App Store / Available on the Android App Store
- NEMA 4X

Datasheet

Model	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)	28.5
Number of MPPT/Inputs per MPPT	4/4
AC Values	
Nominal output power(W)	66000
Max. continuous output power(W)	66000
Nominal grid voltage(V)	480
Operating voltage range(V)	422.4-528
Operating phase	Three
Max. output current(A)	79.4
Max. overcurrent protection device(Amps)	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	172lb (78kg)
Topology	Transformerless
Internal consumption	<1W (Night)
Ambient operating temperature range	-25℃~60℃/-13℉~140℉
Enclosure type	NEMA 4X
Noise emission(typical)	<60dBA
Cooling concept	Intelligent redundant cooling
Max operating altitude without derating(m/ft)	13120ft (4000m)
Designed lifetime	>20 years
Compliance	UL 1741, UL 1741 SA, 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/LAN(Optional)
Warranty	10 Years STD (Extendable to 20 Years)