

# Three

25kW  
-  
40kW

## 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
- ▶ Transformer-less three phase design with 480Vac output
- ▶ 98.6% efficient (98.3% CEC) with ultra-low start up voltage
- ▶ Roof top horizontal installation for Fan(-F) model.
- ▶ 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-25K-US

Solis-30K-US

Solis-36K-US

Solis-40K-US

Solis-36K-US-F

Solis-40K-US-F

### Features:

Smart  
Redundant  
fan-cooling

Four  
MPPT

7"  
LCD

WiFi/GPRS  
/LAN  
Real time  
monitoring

Available on the iPhone  
App Store  
Available on the iPhone  
App Store

NEMA 4X

# Datasheet

Model	Solis-25K-US	Solis-30K-US	Solis-36K-US	Solis-40K-US	Solis-36K-US-F	Solis-40K-US-F
DC Values						
Max voltage(V)	1000					
Startup voltage(V)	350					
Operating MPPT voltage range(V)	200-800					
Max usable input current per MPPT(A)	18					
Number of MPPT/Inputs per MPPT	4/2					
AC Values						
Nominal output power(W)	25000	30000	36000	40000	36000	40000
Max. continuous output power(W)	27500	33000	40000	44000	40000	44000
Nominal grid voltage(V)	480					
Operating voltage range(V)	422.4-528					
Operating phase	Three					
Max. output current(A)	30.1	36.1	43.3	48.1	43.3	48.1
Max. overcurrent protection device(Amps)	40	50	50	60	50	60
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	98.6%					
CEC weighted efficiency	98.3%					
MPPT efficiency	>99.5%					
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)	23.4*37.2*14.4in (595*945*356.5mm)					
Weight	147.7lb (67kg)				154lb (70kg)	
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 1.5" conduit at bottom and side. DC side Fuse terminal, AC side terminal block.					
Display	7.0" LCD color display					
Interface	RS485, WiFi/GPRS/LAN(Optional)					
Warranty	10 Years STD (Extendable to 20 Years)					