

Three

6kW
–
20kW

Solis Three Phase US Inverter

- ▶ Three phase output
- ▶ Over 98.3% Max. efficiency
- ▶ Ultra wide input voltage range
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Integrated AFCI option
- ▶ Compact and light design for one-person easy installation
- ▶ NEMA 4X, visually pleasing for indoor and outdoor installations
- ▶ RS485 Modbus communication protocol with Wi-Fi interface (optional GPRS/LAN)
- ▶ Numerous protection functions for "peace of mind"
- ▶ Web-based data monitoring and on-the-go monitoring via smart phone app
- ▶ 10 Year Standard Warranty with extension options



Model:

Solis-6K-US

Solis-10K-US

Solis-15K-US

Solis-20K-US

Features:

Fanless
—
Cooling
Concept

Ultra wide
—
Voltage
Range

WiFi/GPRS
/LAN
—
Real time
monitoring

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

NEMA 4X

Weight
—
63.9lb

Datasheet

Model	Solis-6K-US		Solis-10K-US		Solis-15K-US		Solis-20K-US	
DC Values								
Max voltage(V)	1000							
Startup voltage(V)	330							
Operating MPPT voltage range(V)	200-800							
Max usable input current per MPPT(A)	15		18					
Number of MPPT/Inputs per MPPT	2/1		2/2					
AC Values								
Nominal output power(W)	6000		10000		15000		20000	
Max. continuous output power(W)	6600		11000		16500		20000	
Nominal grid voltage(V)	480							
Operating voltage range(V)	422.4-528							
Operating phase	Three							
Max. output current(A)	7.2		12		18		24	
Max. overcurrent protection device(Amps)	20		20		30		40	
Output power factor range	1 (default) and 0.8 leading ... 0.8 lagging adjustable							
Grid current THD	<3%							
DC injection current (A)	<20				<50			
Operating frequency range(H)	59.5-60.5							
Efficiency								
Peak efficiency	98.3%							
CEC weighted efficiency	97.5%							
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)	16.9*26.1*9.3in (430*662.5*235mm)							
Weight	63.9lb (29kg)				70.5lb (32kg)			
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							
Cooling concept	Natural convection							
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	2 knockout for 3/4" and 1" conduit at bottom and side							
Display	LCD,2×20 Z.							
Interface	RS485, WiFi/GPRS/LAN(Optional)							
Warranty	10 Years STD (Extendable to 20 Years)							