

Three

15kW
-
40kW

Solis Three PV Inverter

- ▶ Three phase output
- ▶ Over 98.8% Max. efficiency
- ▶ 200V-1000V input voltage range
- ▶ 7.0" LCD color screen display
- ▶ Four MPPT design with precise MPPT algorithm
- ▶ Compact and light design, easy installation
- ▶ IP65 rated for outdoor installation
- ▶ RS485, WiFi/GPRS (optional) interface
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ WiFi and monitoring app available
- ▶ 5 years standard warranty, 20 years optional upgrade



Model:

220V	Solis-15K-LV	Solis-20K-LV		
480V	Solis-20K	Solis-25K	Solis-30K	Solis-33K
480V	Solis-36K-HV	Solis-40K-HV		

Features:

Fanless
Cooling
Concept

Four
MPPT

7"
LCD

WiFi/GPRS
Real time
monitoring

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

IP65

Datasheet

Model	Solis-15K-LV	Solis-20K-LV	Solis-25K	Solis-30K	Solis-33K	Solis-36K-HV	Solis-40K-HV
Energy Source	PV						
Input Side(DC)							
Max. DC input power(kW)	18	24	30	36	40	43	48
Max. DC input voltage(V)	1000						
Start-up voltage(V)	350						
MPPT voltage range(V)	200-800						
Max. input current per MPPT(A/B/C/D)	20A+20A	20A+20A	18A+18A+18A+18A				
MPPT number/Max input strings number	2/4	2/4	4/8				
Output Side (AC)							
Rated output power(kW)	15	20	25	30	33	36	40
Max. apparent output power(kVA)	15	20	27.5	33	33	40	44
Max. output power(kW)	15	20	27.5	33	33	40	44
Rated grid voltage(V _{LL})	220	220	400			480	
Rated grid frequency(Hz)	50/60						
Operation phase	Three						
Rated grid output current@400V	39.4	52.5	36.1	43.3	47.8	43.3	48.1
Max. output current(A)	39.4	52.5	41.7	50	50	47.8	53
Power Factor (at rated output power)	0.8 leading ... 0.8 lagging						
THDi	<3%						
DC injection current(mA)	<0.5%I _n						
Grid frequency range(Hz)	47-52 or 57-62						
Efficiency							
Max. efficiency	97.0%		98.6%		98.7%		98.8%
EU efficiency	96.5%		98.3%/98.3%		98.3%/98.3%		98.4%/98.4%
MPPT efficiency	>99.9%						
Protection							
DC reverse-polarity protection	Yes						
Short circuit protection	Yes						
Output over current protection	Yes						
Output over voltage protection	Yes						
Insulation resistance monitoring	Yes						
Residual current detection	Yes						
Surge protection	Yes						
Islanding protection	Yes						
Temperature protection	Yes						
Integrated DC switch	Optional						
General Data							
Dimensions(mm)	530W*700H*356.5D						
Weight(kg)	58.2						
Topology	Transformerless						
Self consumption (night)	<1W(Night)						
Operating ambient temperature range	-25~60°C						
Ingress protection	IP65						
Noise emission{typical}	<30 dBA						
Cooling concept	Natural convection						
Max.operation altitude	4000m						
Designed lifetime	>20 years						
Grid connection standard	EN50438, G59/3, AS4777, VDE0126-1-1, IEC61727						
Relative humidity	0~100%						
Safety/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3						
Features							
DC connection	MC-4 mateable						
AC connection	Terminal connectors						
Display	7.0"LCD color screen display						
Communication connections	4 pins RS485 connector , 2 RJ45 connector						
Warranty	5 years standard (extend to 20 years)						