

3P

50kW

## Solis Three PV Inverter

- ▶ Three phase output
- ▶ Max. efficiency 99%, EU efficiency 98.72%
- ▶ High precise, high speed MPPT algorithm
- ▶ Four MPPT input, each rated current is 28.5A, compatible with high power module
- ▶ Compact and light design for two-person easy installation
- ▶ IP65, visually pleasing for domestic environment
- ▶ THDi<2%, low harmonic distortion against grid
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Perfect commercial site monitoring solution
- ▶ Intelligent redundancy fan



### Model:

400V Solis-50K

### Features:

Four

MPPT

Smart

Redundant  
fan-cooling

WiFi/GPRS

Real time  
monitoring

THDi

<2%

Available on the iPhone  
App Store

Available on the Android  
App Store

IP65

# Datasheet

Model	Solis-50K
Energy Source	PV
<b>Input Side(DC)</b>	
Max. DC input power(kW)	60
Max. DC input voltage(V)	1100
Start-up voltage(V)	200
MPPT voltage range(V)	200-1000
Max. input current per MPPT(A/B/C/D)	28.5*4
MPPT number/Max input strings number	4/12
<b>Output Side (AC)</b>	
Rated output power(kW)	50
Max. apparent output power(kVA)	55
Max. output power(kW)	55
Rated grid voltage(V <sub>LL</sub> )	400
Rated grid frequency(Hz)	50/60
Operation phase	Three
Rated grid output current@400V	72.2
Max. output current(A)	83.3
Power Factor (at rated output power)	0.8 leading ... 0.8 lagging
THDi (at rated output power)	<2%
DC injection current(mA)	<0.5%I <sub>n</sub>
Grid frequency range(Hz)	47-52 or 57-62
<b>Efficiency</b>	
Max. efficiency	98.8%
EU efficiency	98.4%
MPPT efficiency	>99.9%
<b>Protection</b>	
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
<b>General Data</b>	
Dimensions(mm)	630W*700H*357D(mm)
Weight(kg)	63
Topology	Transformerless
Self consumption (night)	<1W(Night)
Operating ambient temperature range	-25~60°C
Ingress protection	IP65
Noise emission{typical}	<60 dBA
Cooling concept	Natural Convection + Redundancy Fan
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,NB/T32004
<b>Features</b>	
DC connection	MC-4 mateable
AC connection	OT Terminal connectors
Display	LCD,2×20 Z.
Communication connections	4 pins RS485 connector, 2 RJ45 connector, 2 group of terminal block
Warranty	5 years standard (extend to 20 years)