

Three

50kW

Solis Three PV Inverter

- ▶ Three phase output
- ▶ Max. efficiency 99%, EU efficiency 98.5%
- ▶ 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 < 3%, low harmonic distortion against grid
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Perfect commercial site monitoring solution
- ▶ Intelligent redundant fan-cooling



Model:

Solis-50K

Features:

Four

MPPT

Smart

Redundant
fan-cooling

WiFi/GPRS

Real time
monitoring

THDi

<3%

Available on the iPhone
App Store

Available on the iPhone
App Store

IP65

Datasheet

Model	Solis-50K
Energy Source	PV
Input Side(DC)	
Max. DC input power(kW)	55
Max. DC input voltage(V)	1100
Start-up voltage(V)	200
MPPT voltage range(V)	200-1000
Max. input current(A)	28.5A+28.5A+28.5A+28.5A
MPPT number/Max input strings number	4/12
Output Side (AC)	
Rated output power(kW)	50
Max. apparent output power(kVA)	55
Max. output power(kW)	55
Rated grid voltage(V)	400
Grid voltage range(V)	304-460
Rated grid frequency(Hz)	50/60
Operation phase	Three
Rated grid output current(A)	72.2
Max. output current(A)	83.3
Power Factor (at rated output power)	0.8...1...0.8
THDi (at rated output power)	<3%
DC injection current(mA)	<50
Grid frequency range(Hz)	47-52 or 57-62
Efficiency	
Max. efficiency	98.8%
EU efficiency	98.4%/98.4%
MPPTefficiency	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	
Dimensins(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	Intelligent redundant fan-cooling
Max.operation altitude	4000m
Designed lifetime	>20years
Grid connection standard	EN50438, G59/3, AS4777, VDE0126-1-1, IEC61727
Relative humidity	0~100%
Safty/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3
Features	
DC connection	MC-4mateable
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)