

# Solis-50K

## Solis Three Phase Inverters



### Features:

- ▶ Solis Three Phase Range
- ▶ Over 98.8% Max. efficiency
- ▶ 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 redundancy fan



### Model:

400V: Solis-50K

## Datasheet

Model Name	Solis-50K
<b>Input DC</b>	
Max. DC input power(kW)	60
Max. DC input voltage(V)	1100
Nominal DC voltage(V)	600
Start-up voltage(V)	200
MPPT voltage range(V)	200-1000
Max. input current(A/B/C/D)	28.5A+28.5A+28.5A+28.5A
Max. Short Circuit current for each MPPT	44.5A+44.5A+44.5A+44.5A
MPPT number/Max input strings number	4/A:3; B:3; C:3; D:3
<b>Output AC</b>	
Rated output power(kW)	50
Max. apparent output power(kVA)	55
Rated grid voltage(V)	400
Rated grid frequency(Hz)	50/60
Operation phase	Three Phase
Rated grid output current(A)	72.2
Max. output current(A)	83.3
Power Factor (at rated output power)	0.8leading ... 0.8lagging
THDi (at rated output power)	<3%
<b>Efficiency</b>	
Max. efficiency	98.8%
EU efficiency	98.4%
MPPT efficiency	>99.9%
<b>Protection</b>	
DC reverse-polarity protection	Yes
Insulation resistance monitoring	Yes
Residual current detection	Yes
Surge protection	Yes
Islanding protection	Yes
Integrated DC switch	Optional
<b>General Data</b>	
Dimensions (mm)	630W*700H*357D
Weight (kg)	63
Topology	Transformerless
Self consumption (night)	<1W (Night)
Operating ambient temperature range	-25~60°C
Relative humidity	0~100%
Ingress protection	IP65
Noise emission(typical)	<60 dBA
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000m
Grid connection standard	EN50438, G99, AS4777, VDE0126-1-1, IEC61727
Safety / EMC standard	IEC62109-1/-2, AS3100, EN61000-6-2, EN61000-6-4, NB/T32004
<b>Features</b>	
DC connection	MC4
AC connection	OT Terminal connectors
Display	LCD, 2×20 Z.
Communication connections	4 Pin RS485 connector, 2 RJ45 connector, 2 group of terminal block
Monitoring	WiFi or GPRS
Warranty	5 Years