

# Solis-(50-60)K

## Solis Three Phase Inverter



### Features:

- ▶ Max. efficiency 99%, EU efficiency 98.5%
- ▶ High precise, high speed MPPT algorithm
- ▶ Standard Type 2 SPD, optional Type 1+2 Surge protection device
- ▶ Built-in DC String Fuses
- ▶ Four MPPT input, each rated current is 36A, compatible with high power module
- ▶ Compact and light design for two-person easy installation
- ▶ IP65, visually pleasing for domestic environment
- ▶ Perfect commercial site monitoring solution
- ▶ Intelligent redundancy fan
- ▶ 5 Year Standard Warranty with extension options



### Model:

Solis-50K-DC-SFC1      Solis-50K-DC-SFC2  
Solis-60K-4G-DC-SFC1      Solis-60K-4G-DC-SFC2

## Datasheet

Series	Solis-50K-DC-SFC1/ Solis-50K-DC-SFC2	Solis-60K-4G-DC-SFC1/ Solis-60K-4G-DC-SFC2
<b>Input DC</b>		
Max. DC input power	60kW	72kW
Max. DC input voltage		1100V
Nominal DC voltage		600V
Start-up voltage		200V
MPPT voltage range		200-1000V
Full load MPPT voltage range	530-850V	425-850V
Max. input current		36A*4
Max. Short Circuit current for each MPPT		56.2A*4
MPPT number/Max input strings number		4/12
<b>Output AC</b>		
Rated output power	50kW	60kW
Max. apparent output power	55kVA	66kVA
Max. output power	55kW	66kW
Rated grid voltage		400V
Rated grid frequency		50Hz/60Hz
Grid frequency range		47-52Hz or 57-62Hz
Operation phase		3/N/PE
Rated grid output current@400V	72.2A	86.6A
Max. output current	83.3A	100A
Power Factor (at rated output power)		0.8leading ... 0.8lagging
THDi (at rated output power)	<2%	<3%
DC injection current		<0.5%In
<b>Efficiency</b>		
Max. efficiency	98.8%	99.0%
EU efficiency	98.4%	98.50%
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
DC Surge protection		Type1+2 or Type 2
AC Surge protection		Type 2
DC Fuse		Yes
Grid monitoring		Yes
Islanding protection		Yes
temperature protection		Yes
Integrated DC switch		Yes
<b>General Data</b>		
Dimensins		630*1034*374mm
Weight		78kg
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
Designed lifetime		>20years
Grid connection standard		NRS097, G99, AS4777, VDE0126-1-1, IEC61727
Saftey/EMC standard		IEC62109-1/-2, EN61000-6-2, EN61000-6-3, NB/T 32004
<b>Features</b>		
DC connection		MC4
AC connection		OT Terminal connectors
Display		LCD,2×20 Z.
Communication connections		4 pins RS485 connector, 2 RJ45 connector, 2 group of terminal block
Monitoring		WiFi or GPRS
Warranty		5 years (extend to 20 years)