

# Solis-(50-60)K

Solis Three Phase Inverters



360 degree

## Features:

- ▶ Max. efficiency 99.0%
- ▶ Wide voltage range and low startup voltage
- ▶ 4 MPPT input, each rated current is 28.5A, compatible with high power module
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, supporting over 6MW paralleled in one transformer
- ▶ Perfect commercial site monitoring solution
- ▶ Intelligent redundant fan-cooling



## Model:

400V: Solis-50K    Solis-60K-4G

## Datasheet

Model Name	Solis-50K	Solis-60K-4G
<b>Input DC</b>		
Max. input voltage	1100 V	
Rated voltage	600 V	
Start-up voltage	200 V	
MPPT voltage range	200-1000 V	
Max. input current	4*28.5 A	
Max. short circuit current	4*44.5 A	
MPPT number/Max. input strings number	4/12	
<b>Output AC</b>		
Rated output power	50 kW	60 kW
Max. apparent output power	55 kVA	66 kVA
Max. output power	55 kW	66 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	72.2 A / 76 A	86.6 A / 91.2 A
Max. output current	83.3 A	100 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
<b>Efficiency</b>		
Max. efficiency	98.8%	99.0%
EU efficiency	98.4%	98.5%
<b>Protection</b>		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	Yes	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
Integrated PID recovery	Optional	
Integrated AFCI (DC arc-fault circuit protection)	Optional	
Integrated DC switch	Optional	
<b>General Data</b>		
Dimensions (W*H*D)	630*700*357 mm	
Weight	63 kg	
Topology	Transformerless	
Self consumption (night)	<1 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP65	
Cooling concept	Intelligent redundant fan-cooling	
Max. operation altitude	4000 m	
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530	
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4	
<b>Features</b>		
DC connection	MC4 connector	
AC connection	OT terminal	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS	