

Solis-(50-60)K

Solis Three Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 99%
- ▶ 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
Input DC		
Recommended max. PV power	60kW	72kW
Max. input voltage	1100V	
Rated voltage	600V	
Start-up voltage	200V	
MPPT voltage range	200-1000V	
Max. input current	4*28.5A	
Max. short circuit current	4*44.5A	
MPPT number/Max. input strings number	4/12	
Output AC		
Rated output power	50kW	60kW
Max. apparent output power	55kVA	66kVA
Max. output power	55kW	66kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V	
Rated grid frequency	50/60Hz	
Rated grid output current	72.2A/76A	86.6A/91.2A
Max. output current	83.3A	100A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
Efficiency		
Max. efficiency	98.8%	99.0%
EU efficiency	98.4%	98.5%
Protection		
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	
Strings monitoring	Yes	
Anti-PID function	Optional	
Integrated AFCI (DC arc-fault circuit protection)	Optional	
Integrated DC switch	Optional	
General Data		
Dimensions (W*H*D)	630*700*357 mm	
Weight	63kg	
Topology	Transformerless	
Self consumption	<1W (night)	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP65	
Cooling concept	Intelligent redundant fan-cooling	
Max. operation altitude	4000m	
Grid connection standard	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, UNE 206006, UNE 206007-1, IEC 61727, DEWA	
Safety/EMC standard	IEC 62109-1/-2, IEC 62116, EN 61000-6-2/-4	
Features		
DC connection	MC4 connector	
AC connection	OT terminal	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS	