

Solis-(50-60)K, Solis-60K-HV

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

480V: Solis-60K-HV

Datasheet

Model Name	Solis-50K	Solis-60K-HV	Solis-60K-4G
Input DC			
Recommended max. PV power	60kW	72kW	72kW
Max. input voltage		1100V	
Rated voltage	600V	720V	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	3/PE, 480V	3/N/PE, 220/380V, 230/400V
Rated grid frequency		50/60Hz	
Rated grid output current	72.2A/76A	72.2A	86.6A/91.2A
Max. output current	83.3A	80A	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		Yes	
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	