

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

480V: Solis-60K-HV

Datasheet

Model Name	Solis-50K	Solis-60K-HV	Solis-60K-4G
Input DC			
Recommended max. PV power	60 kW	72 kW	72 kW
Max. input voltage		1100 V	
Rated voltage	600 V	720 V	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	
Output AC			
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	3/PE, 480 V	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	72.2 A	86.6 A / 91.2 A
Max. output current	83.3 A	80 A	100 A
Power Factor		>0.99 (0.8 leading - 0.8 lagging)	
THDi		<3%	
DC injection current		<0.5% I _n	
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		63 kg	
Topology		Transformerless	
Self consumption (night)		<1 W	
Operating ambient temperature range		-25 ~ +60°C	
Relative humidity		0-100%	
Ingress protection		IP65	
Noise emission (typical)		<60 dB(A)	
Cooling concept		Intelligent redundant fan-cooling	
Max. operation altitude		4000 m	
Grid connection standard		IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)	
Safety/EMC standard		IEC 62109-1/-2, IEC 61000-6-2/-4	
Features			
DC connection		MC4 connector	
AC connection		OT terminal	
Display		LCD	
Communication		RS485, Optional: Wi-Fi, GPRS	