

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

480V: Solis-60K-HV

Datasheet

Model Name	Solis-50K	Solis-60K-HV	Solis-60K-4G
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Input DC

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% In		

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		
Integrated PID recovery	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: DLS-W, DLS-G		