

Solis-50K

Solis Three Phase Inverters



360 degree

Features:

- ▶ Over 98.8% Max. efficiency
- ▶ 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

Datasheet

Model Name	Solis-50K
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Input DC

Recommended max. PV power	60kW
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
Max. apparent output power	55kVA
Max. output power	55kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V
Rated grid frequency	50/60Hz
Rated grid output current	72.2A/76A
Max. output current	83.3A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<3%

Efficiency

Max. efficiency	98.8%
EU efficiency	98.4%

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 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, 2x20 Z
Communication	RS485, Optional: Wi-Fi, GPRS