

Solis-50K

Solis Three Phase Inverters



Features:

- ▶ Over 98.8% Max. efficiency
- ▶ Wide voltage range and low startup voltage
- ▶ Four MPPT input, each rated current is 28.5A, compatible with high power module
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Perfect commercial site monitoring solution
- ▶ Intelligent redundancy fan



Model:

400V: Solis-50K

Datasheet

Model Name	Solis-50K
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Input DC

Max. input 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	50Hz/60Hz
Rated grid output current	76.0A/72.2A
Max. output current	83.3A
Power Factor	>0.99 (Adjustable from 0.8 leading to 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 (DC/AC)	Yes
Grid monitoring	Yes
Islanding protection	Yes
Temperature protection	Yes
Integrated DC switch	Optional

General Data

Dimensions (W*H*D)	630mm*700mm*357mm
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, IEC61727, DEWA
Safety/EMC standard	IEC 62109-1/-2, IEC62116, EN 61000-6-2/-4

Features

DC connection	MC4
AC connection	OT Terminal connectors
Display	LCD, 2×20 Z.
Communication	RS485; WiFi/GPRS (optional)