

Solis-3P12K-4G

Solis 4G Three Phase Inverters



360 degree

Features:

- ▶ 98.7% Max. efficiency
- ▶ Wide voltage range and low startup voltage
- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ THDi<1.5%, low harmonic distortion against grid
- ▶ Multiple protections levels
- ▶ Intergrated Export Power Manager (EPM)



Model:

Solis-3P12K-4G

Datasheet

Model Name	Solis-3P12K-4G
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Input DC

Recommended max. PV power	14.5kW
Max. input voltage	1000V
Rated voltage	600V
Start-up voltage	180V
MPPT voltage range	160-850V
Max. input current	22A/22A
Max. short circuit current	34.3A/34.3A
MPPT number/Max. input strings number	2/4

Output AC

Rated output power	12kW
Max. apparent output power	13.2kVA
Max. output power	13.2kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V
Rated grid frequency	50/60Hz
Rated grid output current	18.2A/17.3A
Max. output current	19.1A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)
THDi	<1.5%

Efficiency

Max. efficiency	98.7%
EU efficiency	98.1%

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 DC switch	Yes

General Data

Dimensions (W*H*D)	310*563*219 mm
Weight	18.9kg
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
Safety/EMC standard	IEC 62109-1/-2, IEC 62116, EN 61000-6-1/-2/-3/-4

Features

DC connection	MC4 connector
AC connection	Quick connection plug
Display	LCD, 2×20 Z
Communication	RS485, Optional: Wi-Fi, GPRS