

Solis-3P(3-20)K-4G

Solis 4G Three Phase Inverters



Features:

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



Model:

Solis-3P3K-4G	Solis-3P4K-4G	Solis-3P5K-4G
Solis-3P6K-4G	Solis-3P8K-4G	Solis-3P9K-4G
Solis-3P10K-4G	Solis-3P12K-4G	Solis-3P15K-4G
Solis-3P17K-4G	Solis-3P20K-4G	

Datasheet

Model Name	Solis-3P3K-4G	Solis-3P4K-4G	Solis-3P5K-4G	Solis-3P6K-4G	Solis-3P8K-4G	Solis-3P9K-4G	Solis-3P10K-4G	Solis-3P12K-4G	Solis-3P15K-4G	Solis-3P17K-4G	Solis-3P20K-4G
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Input DC

Max. input power	3.6kW	4.8kW	6kW	7.2kW	9.6kW	10.8kW	12kW	14.5kW	18kW	20.4kW	24kW
Max. input voltage	1000V										
Rated voltage	600V										
Start-up voltage	180V										
MPPT voltage range	160-850V										
Max. input current	11A/11A							22A/22A			
Max. Short Circuit current	17.2A/17.2A							34.3A/34.3A			
MPPT number/Max.input strings number	2/2							2/4			

Output AC

Rated output power	3kW	4kW	5kW	6kW	8kW	9kW	10kW	12kW	15kW	17kW	20kW
Max. apparent output power	3.3kVA	4.4kVA	5.5kVA	6.6kVA	8.8kVA	9.9kVA	11kVA	13.2kVA	16.5kVA	18.7kVA	22kVA
Max. output power	3.3kW	4.4kW	5.5kW	6.6kW	8.8kW	9.9kW	11kW	13.2kW	16.5kW	18.7kW	22kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V										
Rated grid frequency	50Hz/60Hz										
Rated grid output current	4.6A/4.3A	6.1A/5.8A	7.6A/7.2A	9.1A/8.7A	12.2A/11.5A	13.7A/13.0A	15.2A/14.4A	18.2A/17.3A	22.8A/21.7A	25.8A/24.6A	30.4A/28.9A
Max. output current	4.7A	6.4A	7.9A	9.5A	12.7A	14.2A	15.9A	19.1A	23.8A	27A	31.8A
Power Factor	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)										
THDi	<1.5%										

Efficiency

Max. efficiency	98.3%	98.7%
EU efficiency	97.8%	98.1%

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)	310mm*563mm*219mm			
Weight	17.3kg	18kg	18.9kg	19.8kg
Topology	Transformerless			
Self consumption	<1W (Night)			
Operating ambient temperature range	-25~60°C			
Relative humidity	0~100%			
Ingress protection	IP65			
Cooling concept	Natural convection		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, EC61727			
Safety/EMC standard	IEC 62109-1/-2, IEC62116, EN 61000-6-1/-2/-3/-4			

Features

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