

Solis-3P(5-20)K-4G

Solis Three Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 98.7%
- ▶ 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-3P5K-4G	Solis-3P6K-4G	Solis-3P8K-4G
Solis-3P10K-4G	Solis-3P12K-4G	Solis-3P15K-4G
Solis-3P17K-4G	Solis-3P20K-4G	

Datasheet

Model Name	Solis-3P5K-4G	Solis-3P6K-4G	Solis-3P8K-4G	Solis-3P10K-4G	Solis-3P12K-4G	Solis-3P15K-4G	Solis-3P17K-4G	Solis-3P20K-4G
Input DC								
Recommended max. PV power	6kW	7.2kW	9.6kW	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	5kW	6kW	8kW	10kW	12kW	15kW	17kW	20kW
Max. apparent output power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA	16.5kVA	18.7kVA	22kVA
Max. output power	5.5kW	6.6kW	8.8kW	11kW	13.2kW	16.5kW	18.7kW	22kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V							
Rated grid frequency	50/60Hz							
Rated grid output current	7.6A/7.2A	9.1A/8.7A	12.2A/11.5A	15.2A/14.4A	18.2A/17.3A	22.8A/21.7A	25.8A/24.6A	30.4A/28.9A
Max. output current	7.9A	9.5A	12.7A	15.9A	19.1A	23.8A	27A	31.8A
Power Factor	>0.99 (0.8 leading - 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	Yes							
Grid monitoring	Yes							
Anti-islanding protection	Yes							
Temperature protection	Yes							
Integrated AFCI (DC arc-fault circuit protection)	Yes							
Integrated DC switch	Yes							
General Data								
Dimensions (W*H*D)	310*563*219 mm							
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, 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							
Communication	RS485, Optional: Wi-Fi, GPRS							