Solis-3P(3-20)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-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
Input DC											
Recommended max. PV power	4.5 kW	6 kW	7.5 kW	9 kW	12 kW	13.5 kW	15 kW	18 kW	22.5 kW	25.5 kW	30 kW
Max. input voltage	1000 V										
Rated voltage	600 V										
Start-up voltage	180 V										
MPPT voltage range	160-850 V										
Max. input current	11 A / 11 A							22 A / 22 A			
Max. short circuit current	17.2 A / 17.2 A							34.3 A / 34.3 A			
MPPT number/Max. input strings number	2/2							2/4			
Output AC											
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	9 kW	10 kW	12 kW	15 kW	17 kW	20 kW
Max. apparent output power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA	9.9 kVA	11 kVA	13.2 kVA	16.5 kVA	18.7 kVA	22 kVA
Max. output power	3.3 kW	4.4 kW	5.5 kW	6.6 kW	8.8 kW	9.9 kW	11 kW	13.2 kW	16.5 kW	18.7 kW	22 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400V										
Rated grid frequency	50 Hz / 60 Hz										
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	4.7 A	6.4 A	7.9 A	9.5 A	12.7 A	14.3 A	15.9 A	19.1 A	23.8 A	27 A	31.8 A
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	Optional										
General Data											
Dimensions (W*H*D)	310*563*219 mm										
Weight	17.3 kg				18 kg			18.9 kg		19.8 kg	
Topology	Transformerless										
Self consumption (night)	<1 W										
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	4000 m										
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530										
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/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										

* Activation required.