

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.