

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
- ▶ 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											
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, 2x20 Z.						
Communication				RS485; WiFi/GPRS (optional)							