

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

Solis 4G Three Phase Inverters



Features:

- ▶ Solis 3P 4G Three Phase Range
- ▶ 160V-850V MPPT voltage range-ultra low startup
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ THDi<1.5%, low harmonic distortion against grid
- ▶ Over 98.7% Max. efficiency
- ▶ Multiple protections levels
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-Android and Apple App store available
- ▶ 5 years standard warranty, 20 years optional upgrade



Model:

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|----------------|----------------|----------------|
| 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-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. DC input power(kW)	6	7.2	9.6	10.8	12	14.5	18	20.4	24	
Max. DC input voltage(V)	1000									
Start-up voltage(V)	180									
MPPT voltage range(V)	160-850									
Max. input current(A/B)	11A+11A				22A+22A					
Max. Short Circuit current for each MPPT	17.2A+17.2A				34.3A+34.3A					
MPPT number/Max input strings number	2/A;1; B:1				2/A;2; B:2					
Output AC										
Rated output power(kW)	5	6	8	9	10	12	15	17	20	
Max. apparent output power(kVA)	5.5	6.6	8.8	9.9	11	13.2	16.5	18.7	22	
Max. output power(kW)	5.5	6.6	8.8	9.9	11	13.2	16.5	18.7	22	
Rated grid voltage(V)	400									
Rated grid frequency(Hz)	50/60									
Grid frequency range(Hz)	47-52 or 57-62									
Operation phase	Three Phase									
Rated grid output current(A)	7.2	8.7	11.5	13.0	14.4	17.3	21.7	24.6	28.9	
Max. output current(A)	7.9	9.5	12.7	14.2	15.9	19.1	23.8	27	31.8	
Power Factor (at rated output power)	0.8leading ... 0.8lagging									
THDi (at rated output power)	<1.5%									
DC injection current	<0.5%In									
Efficiency										
Max. efficiency	98.3%							98.7%		
EU efficiency	97.8%							98.1%		
MPPT efficiency	>99.5%									
Protection										
DC reverse-polarity protection	Yes									
Short circuit protection	Yes									
Output over current protection	Yes									
Output over voltage protection	Yes									
Insulation resistance monitoring	Yes									
Residual current detection	Yes									
Surge protection	Yes									
Grid monitoring	Yes									
Islanding protection	Yes									
Temperature protection	Yes									
Integrated DC switch	Optional									
General Data										
Dimensins(mm)	310W*563H*219D									
Weight (kg)	17.3	18			18.9			19.8		
Topology	Transformerless									
Self consumption (night)	<1W (Night)									
Operating ambient temperature range	-25~60°C									
Relative humidity	0~100%									
Ingress protection	IP65									
Noise emission(typical)	<30 dBA									
Cooling concept	Natural convection				Natural convection+Redundancy Fan					
Max. operation altitude	4000m									
Designed lifetime	>20 years									
Grid connection standard	EN50438, AS4777, VDE0126-1-1, IEC61727, G98, G99									
Safety/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3									
Features										
DC connection	MC4									
AC connection	Terminal connectors									
Display	LCD, 2×20 Z.									
Communication connections	4 pins RS485 connector									
Monitoring	WiFi or GPRS									
Warranty	5 years (extend to 20 years)									