

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 - plus access to Android and Apple apps



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								
Nominal DC voltage(V)	600								
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
Rated grid voltage(V)	400								
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%								
Efficiency									
Max. efficiency	98.3%			98.7%					
EU efficiency	97.8%			98.1%					
MPPT efficiency	>99.5%								
Protection									
DC reverse-polarity protection	Yes								
Insulation resistance monitoring	Yes								
Residual current detection	Yes								
Surge protection	Yes								
Islanding protection	Yes								
Integrated DC switch	Optional								
General Data									
Dimensions (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					<60 dBA			
Cooling concept	Natural convection					Intelligent redundant fan-cooling			
Max. operation altitude	4000m								
Grid connection standard	EN50549, AS4777, VDE0126-1-1, IEC61727, G98, G99								
Safety / EMC standard	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4								
Features									
DC connection	MC4								
AC connection	Terminal connectors								
Display	LCD, 2×20 Z.								
Communication connections	4 Pin RS485 connector								
Monitoring	WiFi or GPRS								
Warranty	5 Years /10 Years /15 Years /20 Years								