

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:

- | | | |
|----------------|----------------|----------------|
| 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									