

4G

6KW
to 10KW

(single)

4G NEW

Solis 4G Single Phase Inverter

- ▶ High switch frequency technology-Smaller and Smarter
- ▶ Efficiency greatly improved
- ▶ One board design, reduce the risks caused by the connector between PCB boards
- ▶ Ultra-low temperature rise, with the structure of the external power inductor
- ▶ The Max. power range of single phase covers 6-10KW
- ▶ Ultra wide input voltage range
- ▶ IP65 rated for outdoor installation
- ▶ RS485, WiFi/GPRS, and Ethernet(optional) interface
- ▶ Integrated export power control function (optional)
- ▶ 5 years standard warranty, 20 years optional upgrade



Model:

Solis-1P6K3-4G

Solis-1P7K-4G

Solis-1P8K-4G

Solis-1P9K-4G

Solis-1P10K-4G

Leading Features:

Three

MPPT

HF SWITCH

High switch
frequency

Weight

18kg

Datasheet

Model	Solis-1P6K3-4G	Solis-1P7K-4G	Solis-1P8K-4G	Solis-1P9K-4G	Solis-1P10K-4G
Energy Source	PV				
Input Side(DC)					
Max. DC input power(kW)	6.9	8	9.2	10.8	11.5
Max. DC input voltage(V)	600				
Start-up voltage(V)	120				
MPPT voltage range(V)	100-500				
Max. input current(A)	10A+10A+10A				
MPPT number/Max input strings number	3/3				
Output Side (AC)					
Rated output power(kW)	6	7	8	9	10
Max. apparent output power(kVA)	6.6	7.7	8.8	9.9	10
Max. output power(kW)	6.6	7.7	8.8	9.9	10
Rated grid voltage(V)	230				
Grid voltage range(V)	160-285				
Rated grid frequency(Hz)	50/60				
Operation phase	single				
Rated grid output current(A)	26.1	30.4	34.8	39.1	43.5
Max. output current(A)	28.8	33.7	36.6	41.3	45.9
Power Factor (at rated output power)	0.8...1...0.8				
THDi (at rated output power)	<1.5%				
DC injection current(mA)	<20				
Grid frequency range(Hz)	47-52 or 57-62				
Efficiency					
Max. efficiency	98.1%				
EU efficiency	97.6%				
MPPTefficiency	>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				
Islanding protection	Yes				
temperature protection	Yes				
Integrated DC switch	Optional				
General Data					
Dimensions(mm)	333W*573H*249D (mm)				
Weight(kg)	18				
Topology	Transformerless				
Self consumption (night)	<1W(Night)				
Operating ambient temperature range	-25~60℃				
Ingress protection	IP65				
Noise emission{typical}	<30 dBA				
Cooling concept	Natural convection				
Max. operation altitude	4000m				
Designed lifetime	>20years				
Grid connection standard	EN50438, G83/2, G59/3, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105				
Relative humidity	0~100%				
Safety/EMC standard	IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3				
Features					
DC connection	MC-4mateable				
AC connection	Ip67rated plug				
Display	LCD,2×20 Z.				
Communication connections	4 pins RS485 connector				
Warranty	5 years standard (extend to 20 years)				