

Solis-(40-60)K, Solis-(50-70)K-HV THREE PHASE INVERTER



Reliability Safety Capacity

Solis-(25-70)kW three phase series string inverter are suitable for the installation of three-phase input pv system of commercial and industrial PV plants. Whose THDi < 2, low harmonic distortion against grid. Adopt anti-resonance, single transformer can connect 6M+ in parallel. Perfect commercial site monitoring solution, intelligent redundancy fan.



FANLESS
Cooling Concept



4 MPPT
High precision



200-1000V
MPPT Voltage Range



IP65
Ingress protection



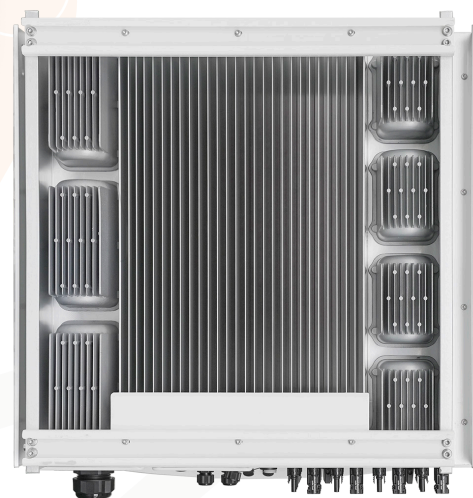
WiFi/GPRS
Real time monitoring



APP Store
iOS / Android

Model

400V Solis-40K, 400V Solis-50K, 400V Solis-60K-4G
480V Solis-50K-HV, Solis-60K-HV, Solis-70K-HV-4G



Warranty & Support

5 Years
WARRANTY

Up to 20 Years
EXTENDED



Engineering Data



Solis-(40-60)K, Solis-(50-70)K-HV

DATASHEET



MODEL	Solis-40K	Solis-50K	Solis-60K-4G	Solis-50K-HV	Solis-60K-HV	Solis-70K-HV-4G
Efficiency						
Max. efficiency	98.8%	98.8%	99.0%	99.0%	99.0%	99.0%
Eu efficiency	98.4%	98.4%	98.5%	98.72%	98.72%	98.5%
MPPT efficiency	99.9%	99.9%	> 99.5%	99.9%	99.9%	> 99.5%
Input						
Max. DC input power(kW)	48	60	72	60	72	84
Max. DC input voltage(V)	1100	1100	1100	1100	1100	1100
Nominal DC voltage (V)	600	600	600	720	720	720
Start-up voltage(V)	200	200	200	200	200	200
MPPT voltage range(V)	200-1000	200-1000	200-1000	200-1000	200-1000	200-1000
Max. input current(A/B/C/D)	22A+22A+22A+22A	28.5A+28.5A+28.5A+28.5A	28.5A+28.5A+28.5A+28.5A	22A+22A+22A+22A	28.5A+28.5A+28.5A+28.5A	28.5A+28.5A+28.5A+28.5A
Max. Short Circuit current for each MPPT	34.3+34.3+34.3+34.3	44.5+44.5+44.5+44.5	44.5+44.5+44.5+44.5	34.3+34.3+34.3+34.3	44.5+44.5+44.5+44.5	44.5+44.5+44.5+44.5
MPPT number/Max input strings number	4/A:2; B:2; C:2; D:2	4/A:3; B:3; C:3; D:3	4/A:3; B:3; C:3; D:3	4/A:2; B:2; C:2; D:2	4/A:3; B:3; C:3; D:3	4/A:3; B:3; C:3; D:3
Output						
Rated output power(kW)	40	50	60	50	60	70
Max. apparent output power(kVA)	44	55	66	55	66	77
Rated grid voltage(V)	400	400	400	480	480	480
Rated grid frequency(Hz)	50/60					
Operation phase	Three Phase					
Rated grid output current(A)	58	72.2	86.6	60.2	72.2	84.2
Max. output current(A)	66.9	83.3	100	66.2	80	92.6
Power Factor (at rated output power)	0.8leading ... 0.8lagging					
THDi (at rated output power)	<3%					
General Data						
Dimensions(mm)	630W*700H*357D					
Weight (kg)	61	63	63	61	63	63
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 dB(A)	<60 dB(A)	<60 dB(A)	<30 dB(A)	<60 dB(A)	<60 dB(A)
Cooling concept	Natural convection	Intelligent redundant fan-cooling	Intelligent redundant fan-cooling	Natural convection	Intelligent redundant fan-cooling	Intelligent redundant fan-cooling
Max. operation altitude	4000m					
Grid connection standard	EN50438, G99, AS4777, VDE0126-1-1, IEC61727					
Safety/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-2, EN61000-6-4, NB/T 32004					
Features						
DC Connection	MC4		Protection			
AC Connection	OT Terminal connectors		DC reverse-polarity protection			
Display	LCD, 2×20 Z.		Insulation resistance monitoring			
Communication connections	4 pins RS485 connector, 2 RJ45 connector, 2 group of terminal block		Residual current detection			
Monitoring	WiFi/ GPRS/ LAN		Surge protection			
Warranty	5/ 10/ 15/ 20 Years		Islanding protection			
			Intergrated DC switch			
						Option



Official release 6/7/2019 Version: 1.0

Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. Solis have the sole right to make such modification at anytime without further notice; Demanding parties shall request for the latest datasheet for such as contact need, and make it a consisting and binding part of lawful documentation duty signed by both parties.