

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

Solis Three Phase Inverters



Features:

- ▶ Solis Three Phase Range
- ▶ Over 99.0% Max. efficiency
- ▶ High precise, high speed MPPT algorithm
- ▶ Four MPPT input, each rated current is 28.5A, compatible with high power module
- ▶ Compact and light design for two-person easy installation
- ▶ IP65, visually pleasing for domestic environment
- ▶ THDi<2%, low harmonic distortion against grid
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Perfect commercial site monitoring solution
- ▶ Intelligent redundancy fan
- ▶ 5 years standard warranty, 20 years optional upgrade



Model:

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

Datasheet

Model Name	Solis-40K	Solis-50K	Solis-60K-4G	Solis-50K-HV	Solis-60K-HV	Solis-70K-HV-4G
Input DC						
Max. DC input power(kW)	48	60	72	60	72	84
Max. DC input voltage(V)	1100					
Start-up voltage(V)	200					
MPPT voltage range(V)	200-1000					
Max. input current(A/B/C/D)	22A+22A+22A+22A	28.5A+28.5A+28.5A+28.5A		22A+22A+22A+22A	28.5A+28.5A+28.5A+28.5A	
Max. Short Circuit current for each MPPT	34.3A+34.3A+34.3A+34.3A	44.5A+44.5A+44.5A+44.5A		34.3A+34.3A+34.3A+34.3A	44.5A+44.5A+44.5A+44.5A	
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:2; B:2; C:2; D:2	4/A:3; B:3; C:3; D:3	
Output AC						
Rated output power(kW)	40	50	60	50	60	70
Max. apparent output power(kVA)	44	55	66	55	66	77
Max. output power(kW)	44	55	66	55	66	77
Rated grid voltage(V)	400			480		
Rated grid frequency(Hz)	50/60					
Grid frequency range(Hz)	47-52 or 57-62					
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%					
DC injection current	<0.5%In					
Efficiency						
Max. efficiency	98.8%		99.0%	99.0%		99.0%
EU efficiency	98.4%		98.5%	98.72%		98.5%
MPPT efficiency	>99.9%					
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)	630W*700H*357D					
Weight (kg)	61	63		61	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 dBA	<60 dBA		<30 dBA	<60 dBA	
Cooling concept	Natural convection	Natural convection+ Redundancy Fan		Natural convection	Natural convection+ Redundancy Fan	
Max. operation altitude	4000m					
Designed lifetime	>20 years					
Grid connection standard	EN50438, AS4777, VDE0126-1-1, IEC61727, G99					
Safty/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-2, EN61000-6-4					
Features						
DC connection	MC4					
AC connection	OT Terminal connectors					
Display	LCD, 2×20 Z.					
Communication connections	4 pins RS485 connector, 2 RJ45 connector, 2 group of terminal block					
Monitoring	WiFi or GPRS					
Warranty	5 years standard (extend to 20 years)					