

Three

40kW
-
70kW

Solis Three PV Inverter

- ▶ Three phase output
- ▶ Max. efficiency 99%, EU efficiency 98.72%
- ▶ 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 redundant fan-cooling



Model:

400V Solis-40K

Solis-50K

Solis-60K-4G

480V Solis-50K-HV

Solis-60K-HV

Solis-70K-HV-4G

540V Solis-70K-HV

Features:

Four

MPPT

Smart

Redundant
fan-cooling

WiFi/GPRS

Real time
monitoring

THDi

<2%

Available on the iPhone
App Store

Available on the iPhone
App Store

IP65

Datasheet

Model	Solis-40K	Solis-50K	Solis-60K-4G	Solis-50K-HV	Solis-60K-HV	Solis-70K-HV-4G	Solis-70K-HV
Energy Source	PV						
Input Side(DC)							
Max. DC input power(kW)	48	60	72	58	72	84	77
Max. DC input voltage(V)	1100						
Start-up voltage(V)	200						
MPPT voltage range(V)	200-1000						
Max. input current per MPPT(A/B/C/D)	22*4	28.5*4		22*4	28.5*4		
MPPT number/Strings per MPPT input	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 Side (AC)							
Rated output power(kW)	40	50	60	50	60	70	70
Max. apparent output power(kVA)	44	55	66	55	66	77	77
Max. output power(kW)	44	55	66	55	66	77	77
Rated grid voltage(V)	400			480			540
Grid voltage range(V)	304-460			384-576			400-648
Rated grid frequency(Hz)	50/60						
Operation phase	Three						
Rated grid output current(A)	58	72.2	86.6	60.2	72.2	84.2	74.8
Max. output current(A)	66.9	83.3	100	66.2	80	92.6	82.3
Power Factor (at rated output power)	0.8...1...0.8						
THDi (at rated output power)	<2%						
DC injection current(mA)	<0.5%In						
Grid frequency range(Hz)	47-52 or 57-62						
Efficiency							
Max. efficiency	98.8%	98.8%	99.0%	99.0%	99.0%	99.0%	99.0%
EU efficiency	98.4%/98.4%	98.4%/98.4%	98.5%/98.5%	98.72%/98.5%	98.72%/98.5%	98.5%/98.5%	98.72%/98.5%
MPPT efficiency	99.9%	99.9%	99.5%	99.9%	99.9%	99.5%	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						
Islanding protection	Yes						
Temperature protection	Yes						
Integrated DC switch	Optional						
General Data							
Dimensions(mm)	630W*700H*357D (mm)						
Weight(kg)	61	63	69	61	63	69	63
Topology	Transformerless						
Self consumption (night)	<1W(Night)						
Operating ambient temperature range	-25~60°C						
Ingress protection	IP65						
Noise emission{typical}	<30 dBA	<60 dBA		<30 dBA	<60 dBA		
Cooling concept	Natural convection	Intelligent redundant fan-cooling		Natural convection	Intelligent redundant fan-cooling		
Max. operation altitude	4000m						
Designed lifetime	>20years						
Grid connection standard	EN50438, G59/3, AS4777, VDE0126-1-1, IEC61727						
Relative humidity	0~100%						
Safety/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3						
Features							
DC connection	MC-4mateable						
AC connection	OT Terminal connectors						
Display	LCD,2×20 Z.						
Communication connections	4 pins RS485 connector, 2 RJ45 connector, 2 group of terminal block						
Warranty	5 years standard (extend to 20 years)						