

Solis-50K

Solis Three Phase Inverters



Features:

- ▶ Solis Three Phase Range
- ▶ Over 98.8% 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<3%, 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-50K

Datasheet

Model Name	Solis-50K
Input DC	
Max. DC input power(kW)	60
Max. DC input voltage(V)	1100
Start-up voltage(V)	200
MPPT voltage range(V)	200-1000
Max. input current(A/B/C/D)	28.5A+28.5A+28.5A+28.5A
Max. Short Circuit current for each MPPT	44.5A+44.5A+44.5A+44.5A
MPPT number/Max input strings number	4/A:3; B:3; C:3; D:3
Output AC	
Rated output power(kW)	50
Max. apparent output power(kVA)	55
Max. output power(kW)	55
Rated grid voltage(V)	400
Rated grid frequency(Hz)	50/60
Grid frequency range(Hz)	47-52 or 57-62
Operation phase	Three Phase
Rated grid output current(A)	72.2
Max. output current(A)	83.3
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%
EU efficiency	98.4%
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)	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)	<60 dBA
Cooling concept	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)