

Solis-40K

Solis Three Phase Inverters



Features:

- ▶ Solis Three Phase Range
- ▶ Over 98.8% Max. efficiency
- ▶ High precision, high speed MPPT algorithm
- ▶ Four MPPT inputs each rated at 22A dc, compatible with high power modules
- ▶ Compact and light weight design for 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



Model:

400V: Solis-40K

Datasheet

Model Name	Solis-40K
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Input DC

Max. DC input power(kW)	53
Max. DC input voltage(V)	1100
Nominal DC voltage(V)	600
Start-up voltage(V)	200
MPPT voltage range(V)	200-1000
Max. input current(A/B/C/D)	22A+22A+22A+22A
Max. Short Circuit current for each MPPT	34.3A+34.3A+34.3A+34.3A
MPPT number/Max input strings number	4/8

Output AC

Rated output power(kW)	40
Max. apparent output power(kVA)	44
Rated grid voltage(V)	400
Rated grid frequency(Hz)	50/60
Rated grid output current(A)	58
Max. output current(A)	66.9
Power Factor (at rated output power)	0.8leading ... 0.8lagging
THDi (at rated output power)	<3%

Efficiency

Max. efficiency	98.8%
EU efficiency	98.4%
MPPT efficiency	99.9%

Protection

DC reverse-polarity protection	Yes
Insulation resistance monitoring	Yes
Residual current detection	Yes
Surge protection	Yes
Islanding protection	Yes
Integrated DC switch	Optional

General Data

Dimensions(mm)	630W*700H*357D
Weight (kg)	61
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
Cooling concept	Natural convection
Max. operation altitude	4000m
Grid connection standard	EN50438, G99, AS4777, VDE0126-1-1, IEC61727, IEC 62116
Safety/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-2, EN61000-6-4, NB/T 32004

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 (extend to 20 years)