

Solis-40K-5G

Solis 5G Three Phase Inverters



Features:

- ▶ Over 98.8% Max. efficiency
- ▶ Wide voltage range and low startup voltage
- ▶ 4 MPPT design with precise MPPT algorithm
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Perfect commercial site monitoring solution
- ▶ 1.3 times DC overload ratio, 13A input for each PV string
- ▶ Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- ▶ Fuse free design to avoid fire hazard
- ▶ Type II surge arrester for both DC and AC
- ▶ Natural convection, Fan-less design, longer lifespan
- ▶ Leakage current repression technology
- ▶ Volt-watt work mode integrated
- ▶ DC input reverse alarm
- ▶ Integrated Export Power Manager(EPM)



Model:

400V: Solis-40K-5G

Datasheet

Model Name	Solis-40K-5G
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Input DC

Max. input power	52kW
Max. input voltage	1100V
Rated voltage	600V
Start-up voltage	180V
MPPT voltage range	200~1000V
Max. input current	4*26A
Max. Short Circuit current	4*40A
MPPT number/Max. input strings number	4/8

Output AC

Rated output power	40kW
Max. apparent output power	44kVA
Max. output power	44kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V
Rated grid frequency	50Hz/60Hz
Rated grid output current	60.8A/57.7A
Max. output current	66.9A
Power Factor	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)
THDi	<3%

Efficiency

Max. efficiency	98.8%
EU efficiency	98.3%

Protection

DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection (DC/AC)	Yes
Grid monitoring	Yes
Islanding protection	Yes
Temperature protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Anti-PID function	Optional
Intergarated DC switch	Yes

General Data

Dimensions (W*H*D)	647mm*629mm*252mm
Weight	45kg
Topology	Transformerless
Self consumption	<1W (Night)
Operating ambient temperature range	-25~60°C
Relative humidity	0~100%
Ingress protection	IP65
Cooling concept	Natural convection
Max. operation altitude	4000m
Grid connection standard	EN50549, G99, AS4777.2-2015, VDE0126-1-1, IEC62727, VDE4105-2018, NB/T 32004
Safety/EMC standard	IEC62109-1/-2, EN61000-6-2, EN61000-6-3

Features

DC connection	MC4
AC connection	Terminal board
Display	LCD, 2×20 Z.
Communication	RS485; WiFi/GPRS (optional)