

Solis-40K-5G

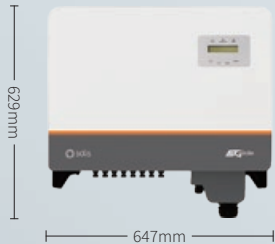
Solis Three Phase Inverters



360 degree

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, supporting over 6MW paralleled in one transformer
- ▶ Perfect commercial site monitoring solution
- ▶ 130% 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
- ▶ Intergrated Export Power Manager (EPM)



Model:

400V: Solis-40K-5G

Datasheet

Model Name	Solis-40K-5G
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Input DC

Recommended max. PV 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	50/60Hz
Rated grid output current	60.8A/57.7A
Max. output current	66.9A
Power Factor	>0.99 (0.8 leading - 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 Type II / AC Type II
Grid monitoring	Yes
Anti-islanding protection	Yes
Temperature protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Anti-PID function	Optional
Integrated DC switch	Optional

General Data

Dimensions (W*H*D)	647*629*252 mm
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	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, IEC61727, DEWA
Safety/EMC standard	IEC62109-1/-2, EN61000-6-2, EN61000-6-3

Features

DC connection	MC4 connector
AC connection	OT terminal
Display	LCD, 2x20 Z
Communication	RS485, Optional: Wi-Fi, GPRS