

S6-GC3P100K12-LV-ND

Solis Three Phase Grid-Tied Inverters

Efficient

- 12 MPPTs, max. efficiency 98.8%
- > 150% DC/AC ratio
- Single MPPT maximum current 48A, perfectly match large current bifacial modules

Smart

- Supports export power control
- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation

Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Globally recognised branded componentry for longer life

Economic

- Power line communication (PLC) (optional)
- Night time PID recovery function, increases overall system yield (optional)
- DC side supports "Y" connector

Models:

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DATASHEET

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Models	100K
Input DC	
Max. input voltage	1100 V
Rated voltage	450 V
Start-up voltage	180 V
MPPT voltage range	160-1000 V
Max. input current	12*48 A
Max. short circuit current	12*66 A
MPPT number/Max. input strings number	12/24
Output AC	
Rated output power	100 kW
Max. apparent output power	100 kVA
Max. output power	100 kW
Rated grid voltage	3/N/PE, 220 V / 230 V
Rated grid frequency	50 Hz / 60 Hz
Rated grid output current	251 A
Max. output current	251 A
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
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾
Integrated PID recovery	Optional
Integrated DC switch	Yes
Integrated AC switch	Optional
General Data	
Dimensions (W*H*D)	1035.5*869*396 mm
Weight	95 kg
Topology	Transformerless
Self-consumption (night)	<2 W
Operating ambient temperature range	-30 ~ +60°C
Relative humidity	0-100%
Ingress protection	IP66
Cooling concept	Intelligent redundant fan-cooling
Max. operation altitude	4000 m
Grid connection standard	G99, IEC61727, EN50549-1/2, VDE4110
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4
Features	
DC connection	MC4 connector
AC connection	OT terminal (max. 400 mm ²)
Display	LED + Bluetooth
Communication	RS485, Optional: Wi-Fi, GPRS, PLC

(1) Activation required.