

S6-GC3P(125-150)K12-NV-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:

S6-GC3P125K12-NV-ND

S6-GC3P150K12-NV-ND



DATASHEET
S6-GC3P(125-150)K12-NV-ND

Models	125K12-NV	150K12-NV
Input DC		
Max. input voltage	1100 V	
Rated voltage	600 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	125 kW	150 kW
Max. apparent output power	137.5 kVA	165 kVA
Max. output power	137.5 kW	165 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	180.4 A / 189.9 A	216.5 A / 227.9 A
Max. output current	208.9 A	250.6 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 2.0	Optional	
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 + APP	
Communication	RS485, Optional: Wi-Fi, GPRS, PLC	