

## S6-GC3P(125-200)K12-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

### Safe

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

### Smart

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

### Economic

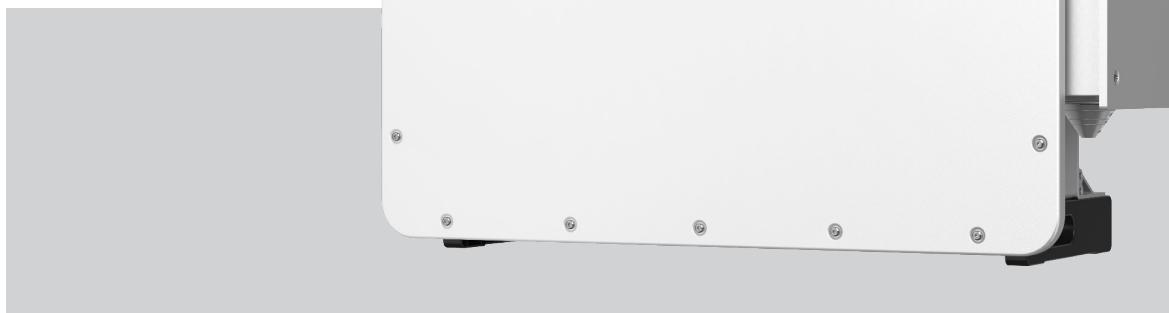
- Power line communication (PLC) (optional)
- Night time PID recovery function, increases overall system yield (optional)
- DC side supports "Y" connector

### Models:

S6-GC3P125K12-NV-ND

S6-GC3P150K12-NV-ND

S6-GC3P200K12-HV-ND



## DATASHEET

## S6-GC3P(125-200)K12-ND

Models	125K12-NV	150K12-NV	200K12-HV
<b>Input DC</b>			
Max. input voltage		1100 V	
Rated voltage	600 V		720 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	
<b>Output AC</b>			
Rated output power	125 kW	150 kW	200 kW
Max. apparent output power	137.5 kVA	165 kVA	220 kVA
Max. output power	137.5 kW	165 kW	220 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		3/PE, 480 V
Rated grid frequency		50 Hz / 60 Hz	
Rated grid output current	180.4 A / 189.9 A	216.5 A / 227.9 A	240.6 A
Max. output current	208.9 A	250.6 A	264.6 A
Power factor		>0.99 (0.8 leading - 0.8 lagging)	
THDi		<3%	
DC injection current		0.5%In	
<b>Efficiency</b>			
Max. efficiency		98.8%	
EU efficiency		98.3%	
<b>Protection</b>			
DC reverse-polarity protection		Yes	
Short circuit protection		Yes	
Output over current protection		Yes	
Insulation resistance monitoring		Yes	
Residual current detection		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	
<b>General Data</b>			
Dimensions (W*H*D)		1035.5*869*396 mm	
Weight		105 kg	
Topology		Transformerless	
Self-consumption (night)		<2 W	
Operating ambient temperature range		-30 ~ +60°C	
Relative humidity		0-100%	
Ingress protection		IP66	
Noise emission (typical)		≤80 dB(A)	
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	
<b>Features</b>			
DC connection		MC4 connector	
AC connection		OT terminal (max. 400 mm <sup>2</sup> )	
Display		LED+Bluetooth	
Communication		RS485, Optional: S3-WiFi-ST, S3-GRPS-ST, PLC	