

S6-GC3P(125-200)K-ND

Solis Three Phase Grid-Tied Inverters

Efficient

- 7/12 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-GC3P125K07-NV-ND

S6-GC3P125K12-NV-ND

S6-GC3P150K07-NV-ND

S6-GC3P150K12-NV-ND

S6-GC3P200K12-HV-ND



DATASHEET
S6-GC3P(125-200)K-ND

Models	125K07-NV	125K12-NV	150K07-NV	150K12-NV	200K12-HV
Input DC					
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	7/21	12/24	7/21	12/24	
Output AC					
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		253.2 A		264.6 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 (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.