

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

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

S6-GC3P200K12-HV-ND



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

Models	125K12-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	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	250.6 A	264.6 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
DC injection current	0.5%In		
Efficiency			
Max. efficiency	98.8%		
EU efficiency	98.3%		
Protection			
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		
General Data			
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		
Features			
DC connection	MC4 connector		
AC connection	OT terminal (max. 400 mm ²)		
Display	LED+Bluetooth		
Communication	RS485, Optional: S3-WiFi-ST, S3-GRPS-ST, PLC		