

SG75CX-P2

NEW

Multi-MPPT String Inverter for 1000 Vdc System



HIGH-PERFORMANCE

- 8 MPPTs with max. efficiency 98.5 %
- DC 15 A current input, compatible with over 500 W+ PV module
- Dynamic shading optimization mode



SMART O&M

- Key component diagnosis and protection
- Smart IV Curve Diagnosis
- Grid fault record function, easy for remote O&M



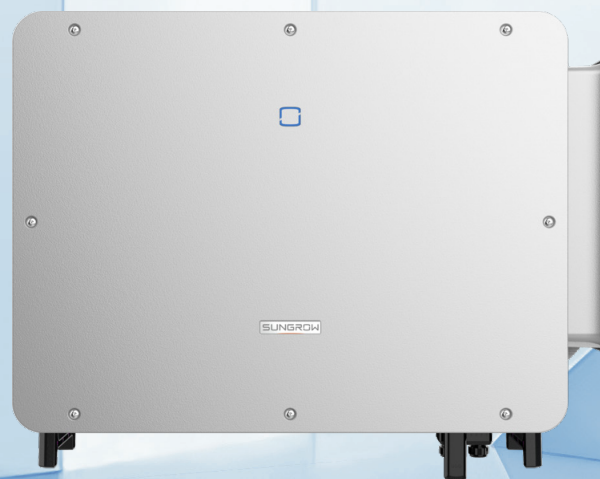
LOWER INVESTMENT

- Compatible max. 240mm² Al AC cables
- Drawer-style cable sealing plate support AC cable pre-assembly



PROVEN SAFETY

- IP66 protection and C5 Anti-corrosion
- DC Type I+II SPD, AC Type II SPD
- Support AFCI 2.0 function



Technical Data Sheet		SG75CX-P2
Input (DC)		
Recommended max. PV input power		105 kW
Max. PV input voltage*		1100 V
Min. PV input voltage / Startup input voltage		180 V / 200 V
Rated PV input voltage		600 V
MPPT operating voltage range**		180 – 1000 V
No. of independent MPP inputs		8
No. of PV strings per MPPT		2
Max. PV input current		240 A (30 A * 8)
Max. DC short-circuit current		320 A (40 A * 8)
Max. current for DC connector		30 A
Output (AC)		
Rated AC output power		75 kW
Max. AC output apparent power		75 kVA
Max. AC output current (at 220V)		113.9 A
Rated AC output current (at 230V)		108.7 A
Rated AC voltage		3 / N / PE, 220 / 380 V ; 3 / N / PE, 230 / 400 V
AC voltage range		320 V - 480 V
Rated grid frequency		50 Hz / 60 Hz
Grid frequency range		45 Hz – 55 Hz / 55 Hz – 65 Hz
Harmonic (THD)		≤ 2 % (at rated power)
Power factor at rated power / Adjustable power factor		> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / AC connection		3 / 3-N-PE
Efficiency		
Max. efficiency / European efficiency		98.5 % / 98.3 %
Protection		
Grid monitoring		Yes
DC reverse polarity protection		Yes
AC short circuit protection		Yes
Leakage current protection		Yes
Surge protection		DC Type I + II / AC Type II
Ground fault monitoring		Yes
DC switch		Yes
PV string monitoring		Yes
Q at night function		Yes
Arc fault circuit interrupter (AFCI)		Yes
PID recovery function		Yes
General data		
Dimensions (W * H * D)		1020 mm * 795 mm * 360 mm
Mounting Method		Wall-mounting bracket
Weight		82 kg
Topology		Transformerless
Degree of protection		IP66
Corrosion		C5
Operating ambient temperature range		-30 to 60 °C
Allowable relative humidity range (non-condensing)		0 – 100 %
Cooling method		Smart forced air cooling
Max. operating altitude		4000 m
Display		LED, Bluetooth+APP
Communication		RS485 / WLAN / Ethernet
DC connection type		Evo2 (Max. 6 mm ²)
AC connection type		OT / DT terminal (Max. 240 mm ²)
Grid Compliance		IEC 62109-1, EN / IEC 61000-6-1 / 2 / 3 / 4, IEC 61727, IEC 62116, EN 50549-1 / 2, UTE C15-712-1, VDE V 0126-1-1, VDE-AR-N 4105:2018, VFR 2019, NC RfG, G99, UNE 217002, NTS, CEI 0-21 2019, CEIO-16 2019, NRS-097-2-1, IEC 63027
Grid Support		Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control