

SG25/30/36/40CX-P2

Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- DC 15A current input, compatible with over 500Wh+ PV module
- Dynamic shading optimization mode
- Built-in PID recovery function

SMART O&M

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

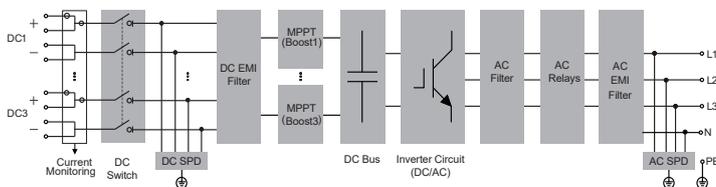
LOWER INVESTMENT

- Easy to handle thanks to 34% weight reduced
- Plug and Play with Buckle Design

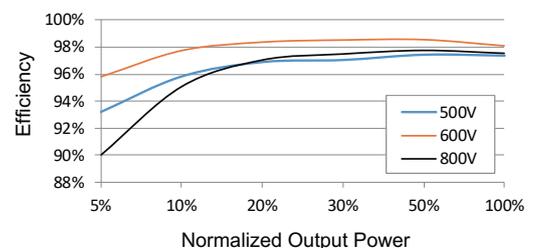
PROVEN SAFETY

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

CIRCUIT DIAGRAM



EFFICIENCY CURVE (SG33CX-P2)



Type designation	SG25CX-P2*	SG30CX-P2*	SG36CX-P2*	SG40CX-P2*
Input (DC)				
Recommended max. PV input power	35 kWp	42 kWp	50.4 kWp	56 kWp
Max. PV input voltage	1100 V			
Min. PV input voltage / Startup input voltage	160 V / 200 V			
Rated PV input voltage	600 V			
MPP voltage range	160 V - 1000 V			
No. of independent MPP inputs	3	3	4	4
No. of PV strings per MPPT	2	2	2	2
Max. PV input current	90 A (30 A * 3)	90 A (30 A * 3)	120 A (30 A * 4)	120 A (30 A * 4)
Max. DC short-circuit current	120 A (40 A * 3)	120 A (40 A * 3)	160 A (40 A * 4)	160 A (40 A * 4)
Max. current for DC connector	20A			
Output (AC)				
Rated AC output power	25 kVA	30 kVA	36 kVA	40 kVA
Max. AC output apparent power	27.5 kVA	33 kVA *	40 kVA	44 kVA
Max. AC output current	41.8 A	50.2 A	60.2 A	66.9 A
Rated AC output current(at 230V)	36.2 A	43.5 A	52.17 A	58 A
Rated AC voltage	3 / N / PE, 220 / 380 V, 230 / 400 V			
AC voltage range	312 - 480 V			
Rated grid frequency	50 Hz / 60 Hz			
Grid frequency range	45 - 55 Hz / 55 - 65 Hz			
Harmonic (THD)	< 3 % (at rated power)			
Power factor at rated power / Adjustable power factor	> 0.99 / 0.8 leading - 0.8 lagging			
Feed-in phases / connection phases	3 / 3-N-PE			
Efficiency				
Max. efficiency / European efficiency	98.4% / 98.2%	98.5% / 98.3%	98.5% / 98.3%	98.5% / 98.3%
Protection				
Grid monitoring	Yes			
DC reverse connection 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 current monitoring	Yes			
Arc fault circuit interrupter (AFCI)	Yes			
PID recovery function	Yes			
General Data				
Dimensions (W*H*D)	645*575*245 mm			
Mounting Method	Wall-mounting bracket			
Weight	38 kg	38 kg	40 kg	40 kg
Topology	Transformerless			
Degree of protection	IP66			
Corrosion	C5			
Night power consumption	< 5W			
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 / Optional: WLAN, Ethernet			
DC connection type	EVO2 (Max. 6 mm ²)			
AC connection type	OT terminal (16~35 mm ²)			
AC Cable specification	Outside diameter 18~38mm			
Grid Compliance	IEC 62109, IEC 61727, IEC 62116, VDE-AR-N 4105:2018, IEC 61000-6-3, EN 50549-1, CEI 0-21 2019, CEI10-16 2019, VDE 0126-1-1/A1 VFR 2019, UTE C15-712-1:2013, UNE 206007-1/RD 1699, UNE 217002, G99			
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control			

*Product subjected to minimum quantity order, reach out Sungrow Sales office for more information

