

## String Inverter For North America



### HIGH YIELD

- 4 MPPTs with max. efficiency 98.7%
- Compatible with bifacial module
- Built-in PID recovery function

### LOW COST

- DC/AC ratio greater than 1.5
- Compatible with Al and Cu AC cables
- Flexible installation from vertical to horizontal

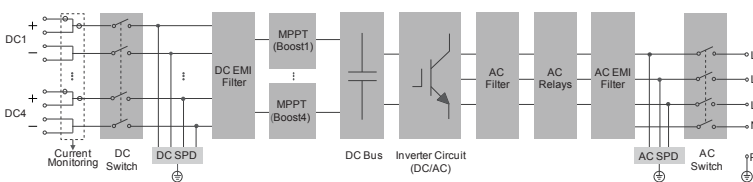
### SMART O&M

- Touch-free commissioning and remote firmware upgrade
- Online IV curve scan and diagnosis
- Fuse free design with smart string current monitoring

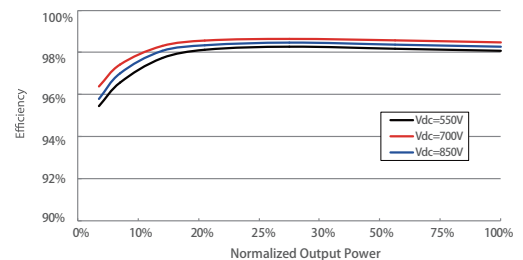
### PROVEN SAFETY

- NEMA 4X and C5 protection
- Type II SPD for both DC and AC
- Compliant with UL safety and grid code

### CIRCUIT DIAGRAM



### EFFICIENCY CURVE



Type designation	SG36CX-US
<b>Input (DC)</b>	
Max. PV input voltage	1000 V
Min. PV input voltage / Start-up input voltage	200 V / 250 V
Nominal PV input voltage	710 V
MPP voltage range	200 – 1000 V
MPP voltage range for nominal power	550 – 850 V
No. of independent MPP inputs	4
Max. number of PV strings per MPPT	2
Max. PV input current	26 A * 4
Max. current for input connector	30 A
Max. DC short-circuit current per MPPT	45 A
<b>Output (AC)</b>	
AC output power	36 kVA @ 113 °F (45 °C) / 30 kVA @ 122 °F (50 °C)
Max. AC output current	43.3 A
Nominal AC voltage	3 / N / PE, 277 / 480 V
AC voltage range	422 – 528 V
Nominal grid frequency / Grid frequency range	60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power / Adjustable power factor	>0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3
<b>Efficiency</b>	
Max. efficiency	98.70 %
CEC efficiency	98.50 %
<b>Protection</b>	
DC reverse connection protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
DC switch	Yes
AC switch	Yes
PV string current monitoring	Yes
Anti-PID function	Yes
Arc fault circuit interrupter (AFCI)	Yes
Overvoltage protection	DC Type II / AC Type II
Rapid Shutdown	Yes
<b>General Data</b>	
Dimensions (W*H*D)	Inverter: 702 * 595 * 310 mm (27.6" * 23.4" * 12.2") Wire-Box: 285 * 295 * 277 mm (11.2" * 11.6" * 10.9")
Weight	62 kg (136.7 lbs)
Isolation method	Transformerless
Degree of protection	NEMA 4X (IP66)
Night power consumption	< 2W *
Operating ambient temperature range	-30 to 60 °C (> 45 °C derating) -22 to 140 °F (> 113°F derating)
Allowable relative humidity range (non-condensing)	0 – 100%
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	LED, Bluetooth + APP
Communication	RS485 / optional: WiFi and Ethernet
Third-Party communication protocol	SunSpec Modbus
DC connection type	MC4 (#12~#10AWG )
AC connection type	OT (#6 - 2/0AWG, Cu or Al)
Compliance	UL1741, UL1741 SA, CA Rule 21, IEEE 1547, IEEE 1547.1, CSA C22.2, No.107.1-01, UL 1699B and FCC Part 15, UL1998, Rule 14, NEC 2019, Sunspec Rapid Shutdown
Grid support	LVRT, HVRT, active & reactive power control and power ramp rate control

Notes: \* Night power consumption excludes the optional power from PID recovery.

