

# SG30/50CX-P2

Multi-MPPT String Inverter for 1000 Vdc System

AU



## HIGH YIELD

- DC 15A current input, compatible with over 500W+ 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

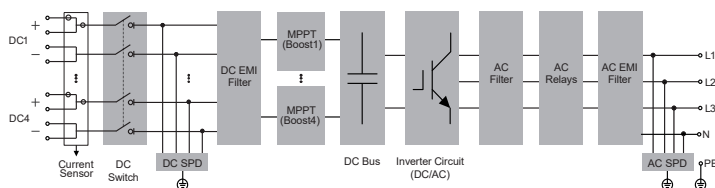
## LOWER INVESTMENT

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

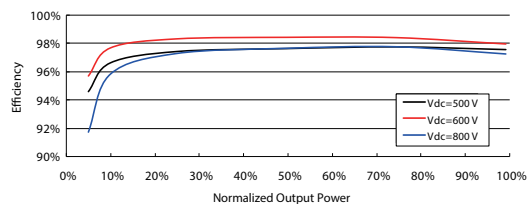
## PROVEN SAFETY

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

## CIRCUIT DIAGRAM



## EFFICIENCY CURVE



Type designation	SG30CX-P2	SG50CX-P2
<b>Input (DC)</b>		
Recommended max. PV input power	42 kWp	70 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 – 1000 V
No. of independent MPP inputs	3	4
No. of PV strings per MPPT		2
Max. PV input current	90 A (30 A/30 A/30 A)	120 A (30 A/30 A/30 A/30 A)
Max. DC short-circuit current	120 A (40 A/40 A/40 A)	160 A (40 A/40 A/40 A/40 A)
<b>Output (AC)</b>		
Rated AC output power	29.9 kW	50 kW
Max. AC output apparent power	29.9 kVA	50 kVA
Rated AC output apparent power	29.9 kVA	50 kVA
Max. AC output current	48.15 A	80.5 A
Rated AC voltage		3 / N / PE, AC 230 / 400 V
AC voltage range		312 – 480 V
Rated grid frequency / Grid frequency range		50 Hz / 45 – 55 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
<b>Efficiency</b>		
Max. efficiency / European efficiency		98.5 % / 98.3 %
<b>Protection &amp; Function</b>		
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 current monitoring		Yes
PID recovery function		Yes
DC Terminal Protective Cover		Yes
Arc fault circuit interrupter (AFCI)		Yes
Communication dongle (EyeM4)		Yes
<b>General Data</b>		
Dimensions (W*H*D)		600*625*240 mm
Weight	35 kg	36 kg
Topology		Transformerless
Degree of protection		IP66
Corrosion		C5
Night power consumption		≤5 W
Operating ambient temperature range		-30 to 60 °C (> 45 °C derating)
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, Optional: 4G
DC connection type		MC4 -Evo2 (Max. 6 mm <sup>2</sup> )
AC connection type	OT terminal (16~35 mm <sup>2</sup> )	OT or DT terminal (35~50 mm <sup>2</sup> )
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 61000-6-3, AS/NZS 4777.2:2020	
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control	
Country of manufacture	China	

