SG25CX-P2-LV

Multi-MPPT String Inverter

HIGH YIELD

- DC 15 A current input, compatible with over 500W+ PV module
- Dynamic shading optimization mode

LOWER INVESTMENT

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

Smart O&M

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

PROVEN SAFETY

- IP66 protection and C5 Anti-corrosion
- DC Type I+II SPD, AC Type II SPD



Type designation	SG25CX-P2-LV
Input (DC)	
Recommended max. PV input power	35 kWp
Max. PV input voltage *	850 V
Min. PV input voltage / Startup input voltage	160 V / 200 V
Rated PV input voltage	360 V
MPPT voltage range **	160 V - 800 V
No. of independent MPP inputs	3
No. of PV strings per MPPT	2
Max. PV input current	90 A (30 A * 3)
Max. DC short-circuit current	120 A (40 A * 3)
Max. current for DC connector	20 A
Output (AC)	
Rated AC output power	25 kW
Max. AC output apparent power	27.5 kVA
Max. AC output current	72.2 A
Rated AC output current (at 220 V)	65.6 A
Rated AC voltage	3 / N / PE, 127 V / 220 V
AC voltage range	165 V - 290 V
Rated grid frequency	50 Hz / 60 Hz
Grid frequency range	45 Hz - 55 Hz / 55 Hz - 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	97.80 % / 96.97 %
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 current monitoring	Yes
General data	
Dimensions (W*H*D)	645 mm * 575 mm * 245 mm
Weight	38 kg
Mounting method	Wall-mounting bracket
Topology	Transformerless
Degree of protection	IP66
Corrosion	C5
Operating ambient temperature range	-30 ℃ - 60 ℃
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 / Optional: Ethernet
DC connection type	Evo2 (Max. 6 mm^2)
AC connection type	OT terminal (16 mm^2 - 35 mm^2)
AC cable specification	Outside diameter 18 mm - 38 mm
Grid compliance	IEC 62109, IEC 61727, IEC 62116, NBR 16149, NBR16150 e certificação Inmetro
Grid support	Q at night function, LVRT, HVRT,active & reactive power control and power ramp rate control

* Input voltage exceeding the MPPT operating voltage range triggers inverter protection

** Please refer to the user manual for the full load MPPT voltage range