SC110CX

C&I Power Conversion System



HIGH YIELD

- Advanced three-level technology, max. efficiency 98.5%
- Intelligent air cooling,no derating up to 45℃
- Wide DC voltage operation window, full power operation at 1000V

FLEXIBLE APPLICATION

- Bidirectional power conversion system with full four-quadrant operation
- Compatible with high voltage battery system, low system cost
- Battery charge&dis-charge management and black start function integrated

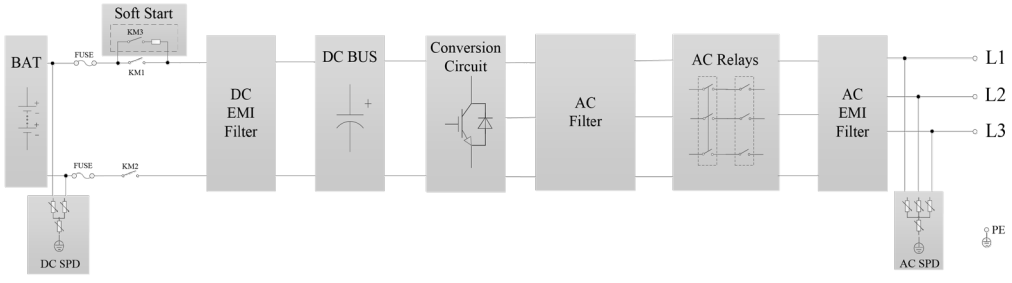
SMART O&M

- Modular design, easy for maintenance
- IP66 protection degree
- Optional C5 anti-corrosion degree, adjust to applications close to the sea

GRID SUPPORT

- Compliant with IEC 62477, IEC 62109 and grid regulations
- Fast active/reactive power response
- L/HVRT,VSG,FRT,soft start/stop,specified power factor control and reactive power support

CIRCUIT DIAGRAM



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SUNGROW
Clean power for all

Product name	SC110CX
DC side	
Max.DC voltage	1000 V
Input Start-up voltage	600 V
DC voltage range for nominal power	600 V ~ 1000 V
Max.DC current	205.8 A
Max.DC power	121 kw
Compatible batteries with the PCS	Li-ion
AC side (On-Grid)	
Rated output power	110 kVA
Rated output current	158.7 A
Max.AC current	183.8 A
Nominal voltage	400 V
Voltage range	340 V ~ 440 V
Nominal frequency / frequency range	50 Hz / 45 Hz ~ 55 Hz
Max.THD of current	< 3 % (Nominal power)
DC voltage component	< 0.5 % Un (Linear balance load)
Power factor range	1.0 leading ~ 1.0 lagging
Feed-in phases / AC connection	3 / 3
AC side (Off-Grid) *	
Nominal voltage	400 V
Nominal frequency	50 Hz
Max.THD of voltage	< 3 % (linear load)
Unbalance load capacity	100 %
Efficiency	
Max efficiency	98.5 %
Protection	
Reverse polarity protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Overvoltage protection	DC Type II / AC Type III
Grid monitoring / Ground fault monitoring	Yes
Insulation monitoring	Yes
Overheat protection	Yes
Active anti-islanding method	Frequency shift
General data	
Dimensions (W * H * D)	820 mm * 310 mm * 1019 mm
Weight	105 kg
Degree of protection	IP 66
Protective class	Class I
Operating temperature range	-30 ℃ ~ 60 ℃ (> 45 ℃ derating)
Operating humidity range	0 % ~ 100 %
Temperature control method	Intelligent air cooling
Noise	≤ 74 dB
Max.operating altitude	4000 m (> 4000 m derating)
Display	LED , Bluetooth + APP
Communication	Ethernet
Compliance	AS / NZS 4777.2, AS / NZS 3000, IEC 61000, IEC 62477, IEC 62109
Grid support	L / HVRT , active & reactive power control and power ramp rate control
Country of manufacture	China

* An isolation transformer is required to support off grid running functionality.
** The cabinet cannot be stored in environments contaminated with halogen or sulfur elements.

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