

SC125CX

DC/AC Power Converter Unit



HIGH YIELD

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



SMART O&M

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



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



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



Type designation	SC125CX
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	212.5 A
Max.DC power	137.5 kW
Compatible batteries with the PCS	Li-ion
AC side (On-Grid)	
Rated output power	125 kVA
Rated output current	180.4 A
Max.AC current	198.4 A
Nominal voltage	400 V
Voltage range	340 V ~ 440 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 Hz ~ 55 Hz, 60 Hz / 55 Hz ~ 65 Hz
Max.TH.D 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	3P4L
AC side (Off-Grid)	
Nominal voltage	400 V
AC voltage range	340 V ~ 440 V
AC voltage distortion	< 1.5 % (Linear load)
DC voltage component	< 0.5 % Un (Linear balance load)
Unbalance load capacity	100 %
Nominal Voltage frequency / Voltage frequency range	50 Hz / 48 Hz ~ 52 Hz, 60 Hz / 58 Hz ~ 62 Hz
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 * 1019mm
Weight	105 kg
Degree of protection	IP 66
Topology	Transformerless
Protective class	Class I
Operating temperature range	-30 °C ~ 60 °C (> 45 °C derating)
Operating humidity range	0 % ~ 100 %
Temperature control method	Intelligent air cooling
Noise	≤ 70 dB
Max.operating altitude	4000 m (> 4000 m derating)
Display	LED, Bluetooth + APP
Communication	Ethernet
Compliance	EN50549, VDE-AR-N 4105+VDE-AR-N 4110, IEC 61000, IEC 62477, IEC 62109
Grid support	L / HVRT, active & reactive power control and power ramp rate control

* The dual-branch version of the PCS will add a battery input terminal.

