

SC 500TL PCS



Features

- Support on-grid charge/discharge and independent off-grid
- Multi-machine parallel function
- Support LVRT and reactive power compensation
- Support automatic frequency modulation
- TÜV, CSA and BDEW certifications

Input (DC) side

Max. DC voltage	820V
Working voltage range	500~800V
Min. DC voltage	480V

General Data

Dimensions (W*H*D)	1606×2034×860mm
Weight	1300kg
Operating ambient temperature range	-30°C~55°C
Power consumption at stop	<180W
Cooling Concept	Temperature-controlled forced air cooling
Ingress protection rating	IP21
Relative humidity	0~95% no condensing
Max. operating altitude	6000m (4000mderating)
Display	Touch screen
Dispatch communication	RS485, Ethernet
BMS communication	RS485, CAN
Communication protocol	Modbus/IEC104

Efficiency

Max. efficiency	98.20%
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Protection Parameters

DC over-voltage protection	Yes
DC short-circuit protection	Yes
AC over-voltage protection	Yes
Reverse polarity protection	Yes
Insulation monitoring	Yes
Module temperature protection	Yes

Output (AC) Side

Nominal power	500kW
Max. AC power	550kVA (long time operation)
Max. AC current	1008A
Max. THD	<3%at nominal power
Nominal grid voltage	315V
Grid voltage range	252~362V
Nominal grid frequency	50/60Hz
Grid frequency range	47~52Hz/57~62Hz
Power factor at nominal power	>0.99
Power factor range	0.9(leading)~0.9 (lagging)
Individual inversion voltage range	280~330V
Individual inversion output voltage distortion	<3%(linear load)
Unbalance load capacity	100%
Individual inversion voltage transition range	Within 10% (resistance load) 0%=>100%

