

SC1000KU

Power Conversion System



HIGH YIELD

- Max. efficiency 98.4%
- Effective forced air cooling, 1.1 overload capacity, Wide DC voltage operation window, flexible for battery configuration

EASY O&M

- Compact design and light weight for easy installation
- Scalable system configuration, extend to MW power range

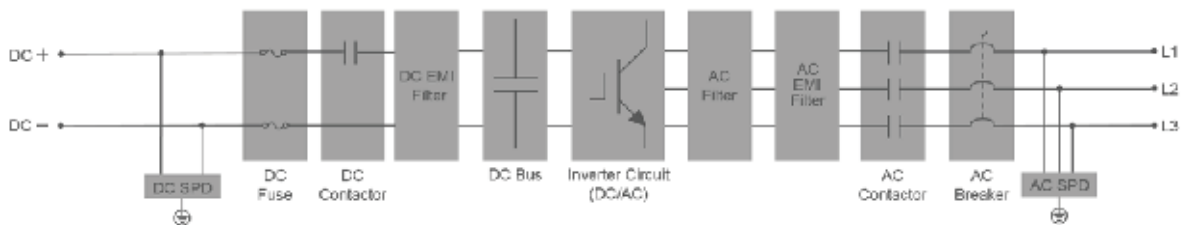
ESS APPLICATIONS

- Battery charge & dis-charge management integrated
- Bidirectional power conversion system with full fourquadrant operation
- Compatible with high voltage battery system, low system cost

GRID SUPPORT

- Fast and accurate power response
- Grid support including L/HVRT, soft start/stop, specified power factor control and reactive power support

CIRCUIT DIAGRAM



System Type	SC1000KU
DC Side	
DC voltage range for nominal power	810 ~ 1,200 V
Max. DC current	1,358 A
AC Side(Grid)	
Nominal AC power (at 50°C)	1,000 kW
Max. AC power at PF=1 (at 45°C)	1,100 kVA
Max. AC current	1,176 A
Max. THD of current	< 3 % (at nominal power)
DC current injection	< 0.5 %
Nominal AC voltage	540 V
AC voltage range	475 ~ 594 V
Nominal grid frequency	60 Hz
Grid frequency range	55 ~ 65 Hz
Power factor at nominal power	> 0.99
Power factor range	0.8 (lagging) ~ 0.8 (leading)
Efficiency	
Max. efficiency	98.4%
General Data	
Dimensions (W × H × D)	1,606 × 2,065 × 960 mm / 63.2" × 81.3" × 37.8"
Weight	1,400 kg / 3,086 lbs.
Degree of protection	IP 21 / NEMA 2
Operating ambient temperature range	-30 ~ 50 °C / -22 ~ 122 °F
Allowable relative humidity range	0 ~ 95 % (No-condensing)
Max. operating altitude	2,000 m / 6,561 ft
Display	Touch screen
Cooling method	Temperature-controlled forced air cooling
Isolation	Transformerless
Self-consumption at stop	< 127 W
Noise emission	< 78.6 dB @1m
Communication	RS485, Ethernet, CAN
Communication protocol	Modbus RTU, Modbus TCP, IEC104
Compliance	UL 1741, UL1741 SA, IEEE 1547, IEEE 1547.1, CSA C22.2 No. 107.1-01