

## SC Series Quick Product Introduction

### High Frequency Pure Sine Wave Inverter / Charger



Scan QR Code to view the User Manual



**IMPORTANT:** Please must read the Installation and Maintenance Instructions Before Connecting to the Supply.  
Please download and read the user manual from COTEK website or QR code before starting to use the SC Inverter.

Inverter Mode	SC-1200		SC-2000
<b>Output</b>	Continuous Output Power	1200 VA ± 3%	2000 VA ± 3%
	Surge Power : 1 Min	Load 101%~115%	
	2 Sec	2400 VA	4000 VA
	Frequency	50/60 Hz +/- 0.3 Hz (User-selectable)	
	Output Waveform	Pure Sine Wave (THD < 5% @ 12.5V/25V/115VAC, linear load) / (THD < 3% @ 12.5V/25V/230VAC, linear load)	
<b>Protection</b>	Input Protection	Over / Under Voltage, Reverse Polarity (Internal Fuse)	
	AC Output Protection	Short-Circuit, Overload	
	Temperature protection	Shutdown	
	Battery Temp. protection	By a RJ-11 connector to battery Temperature sensor	
<b>Charger Mode</b>			
<b>AC Input</b>	Input Frequency Range	50Hz:47 ~ 53 Hz / 60Hz:57 ~ 63 Hz	
	Efficiency (Max.)	>88%	
	Power Factor Correction(PFC)	>0.95 (Max.)	
<b>Auxiliary DC Output</b>	Output Voltage	Battery Voltage	
<b>DC Output</b>	Output Current	20A Max	
<b>Signal and Control</b>	Battery Control	Bulk / Absorption / Float (3-stage Battery Chargers)	
	Remote Control Panel	CR-20C / CR-16B / CR-8 (Optional)	
	Remote Control Terminal	Controls the inverter ON / OFF operation	
	Dry Contact Terminal	By a relay	
<b>Other</b>			
<b>Working Temp. Range</b>	Full Load	SC-1200 : -20 °C ~ 50 °C**	SC-2000 : -20 °C ~ 40 °C
	Power de-rating	SC-1200 : 40 W per °C, 51~60 °C	SC-2000 : 60W per °C, 41~60 °C
	Storage	-30 °C ~ 70 °C	
<b>Working Humidity</b>	Max 93%, Non-condensing		
<b>Cooling</b>	Temperature & Load Controlled Cooling Fan		
<b>Dimension</b>	251 x 116 x 386mm		251 x 116 x 453mm

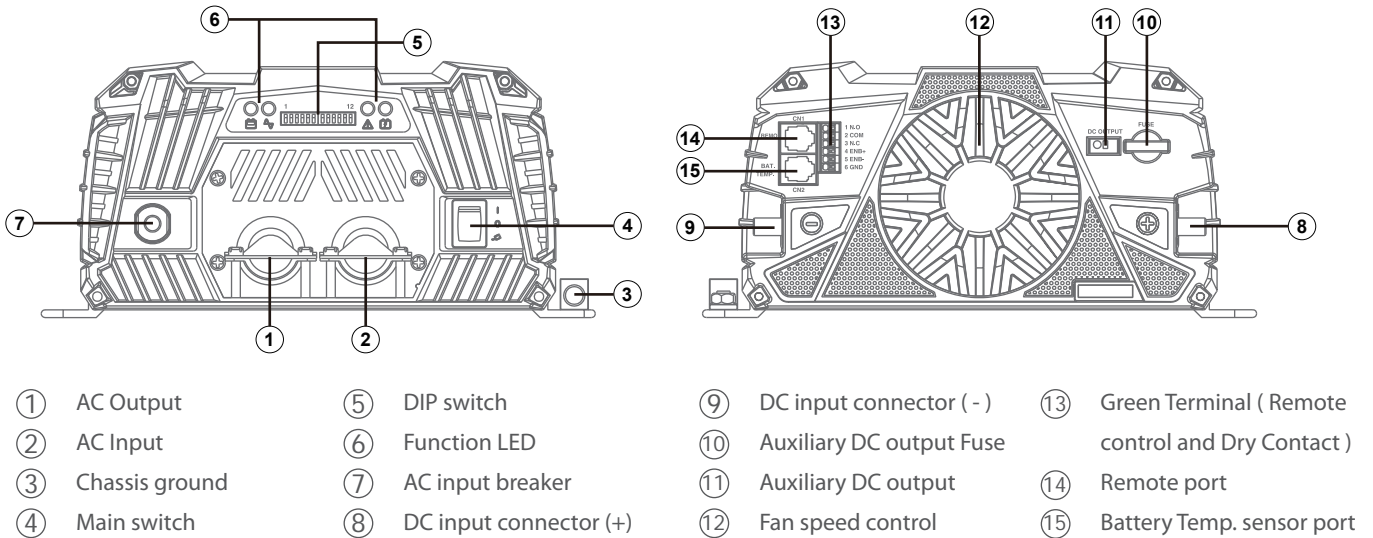
Inverter Mode	SC Series-112	SC Series-124	SC Series-212	SC Series-224	
<b>Input</b>	Nominal Voltage	12 VDC	24 VDC	12 VDC	
	Input Voltage Range (±0.5V)	10.5 ~ 16.5 VDC	21 ~ 33 VDC	10.5 ~ 16.5 VDC	
	Over-Voltage Protection(±0.5V)	16.5 VDC	33 VDC	16.5 VDC	
	Under-Voltage Protection(±0.5V)	10.5 VDC	21 VDC	10.5 VDC	
	Input Current (Max)	SC-1200 : 132A SC-2000 : 260 A	SC-1200 : 66A SC-2000 : 130 A	SC-1200 : 132A SC-2000 : 260 A	SC-1200 : 66A SC-2000 : 130 A
	No Load Current	SC-1200 : < 3.0 A @12.5V SC-2000 : < 4.0 A @12.5V	SC-1200 : < 1.5 A @25V SC-2000 : < 2.0 A @25V	SC-1200 : < 3.0 A @12.5V SC-2000 : < 4.0 A @12.5V	SC-1200 : < 1.5 A @25V SC-2000 : < 2.0 A @25V
	Stand-By Current	< 0.4 A		< 0.4 A	< 0.2 A
<b>Output</b>	Output Voltage	100 / 110 / 115 / 120VAC +/-3%		200 / 220 / 230 / 240VAC +/-3%	
	Max. Efficiency	89%	90%	89%	90%
	INV. AC Output	SC-1200 : 12A MAX , SC-2000 : 20A MAX		SC-1200 : 6A MAX , SC-2000 : 10A MAX	
	AC Output	SC-1200 : 30A MAX , SC-2000 : 30A MAX		SC-1200 : 22A MAX , SC-2000 : 26A MAX	
<b>Protection</b>	AC Input Protection	30 Amp Circuit Breaker		16 Amp Circuit Breaker	
<b>Charger Mode</b>					
<b>AC Input</b>	Nominal Voltage / Frequency	110 VAC, 50 / 60Hz (User-selectable)		230 VAC, 50 / 60Hz( User-selectable)	
	Input Voltage Range	90 ~ 132 VAC		180 ~ 264 VAC	
	Nominal Current	SC-1200 : 8.2A (@110VAC) , SC-2000 : 16.5A (@110VAC)		SC-1200 : 3.9A (@230VAC) , SC-2000 : 7.9A (@230VAC)	
<b>DC Output</b>	Charging Current Range	SC-1200 : 12.5/25/37.5/50A SC-2000 : 25/50/75/100A	SC-1200 : 6.25/12.5/18.75/25A SC-2000 : 12.5/25/37.5/50A	SC-1200 : 12.5/25/37.5/50A SC-2000 : 25/50/75/100A	SC-1200 : 6.25/12.5/18.75/25A SC-2000 : 12.5/25/37.5/50A
	Max. Output Voltage	14.4 VDC @ GEL TYPE		28.8VDC @ GEL TYPE	
	Battery Temp. Compensation	-25 mV per °C		-50 mV per °C	
				-25 mV per °C	-50 mV per °C
<b>Bypass Relay</b>	Relay Specification	30 Amp / 120 VAC @ 110V system		16 Amp / 250 VAC @ 230V system	

Safety and EMS	SC Series-112	SC Series-124	SC Series-212	SC Series-224
Safety Standards	UL458 & Supplement SA / UL1741		EN 62368-1	
E-mark	---		Certified CISPR 25 ; ISO7637-2	
EMC Standards	Certified FCC Class A*		EN55032 Class A*, EN55024 Class A*, EN61000-3-2, 3-3 EN61000-4-2, 3, 4, 5, 6, 8, 11	

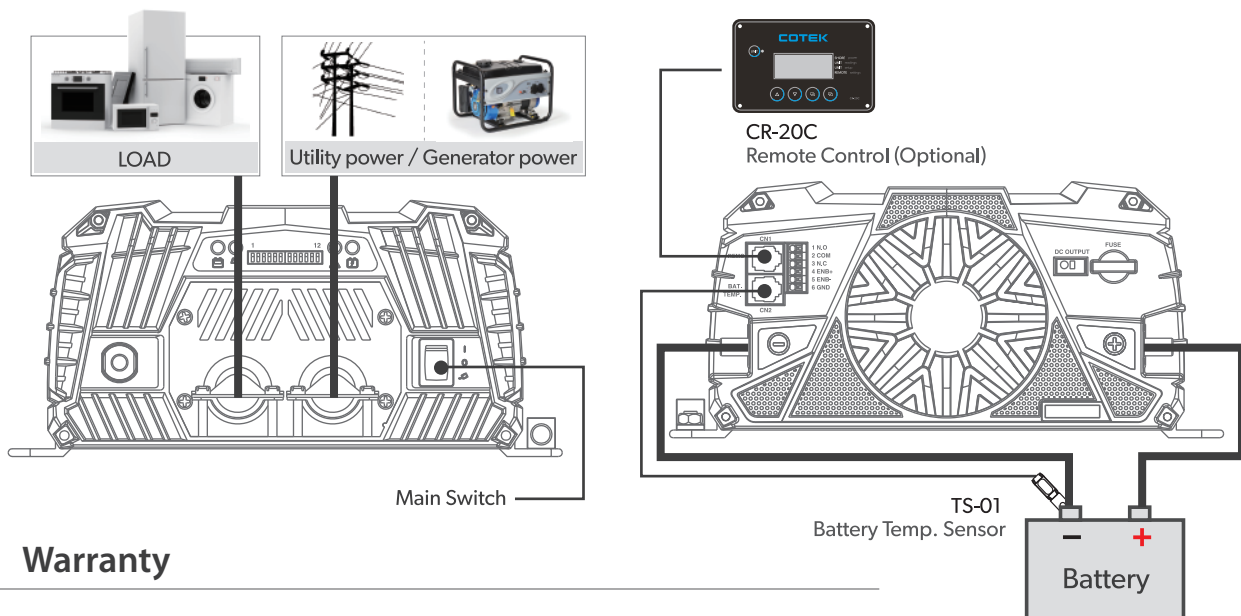
\*\*For SC-1200 -112 and -124, the operating temperature range certified by UL Safety Standard is -20°C ~ 40°C.

\*Warning : SC series is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

## Product Appearance



## Product Installation



## Warranty



### Warning!

Do not open or disassemble the Inverter. Attempting to do so may cause risk of electrical shock or fire.

We guarantee this product against defects in materials and workmanship for a period of 24 months from the date of purchase.

In case you need to repair or replace any defective power inverters, please contact COTEK local distributor.

This warranty will be considered void if the unit has been misused, altered, or accidentally damaged. COTEK is not liable for anything that occurs as a result of the user's fault.