COTEK

350W Pure Sine Wave Inverter

SE350 series

Features:

- Pure sine wave output (THD < 3%@ linear load)
- Output frequency 50/60Hz switch selectable
- Output voltage / power saving mode selectable
- Low power saving mode < 2W
- Input & output completely isolated design
- High efficiency
- Capable of driving inductive & capacitive loads at the start moment
- A LED Indicator with twin color displays all operation status
- Loading and temperature controlled cooling fan
- Built in advanced microprocessor to make friendly interface with user.
- Protection:Input low voltage, Overload, Short circuit, Low battery alarm, Input over voltage, Over temperature

CE E13

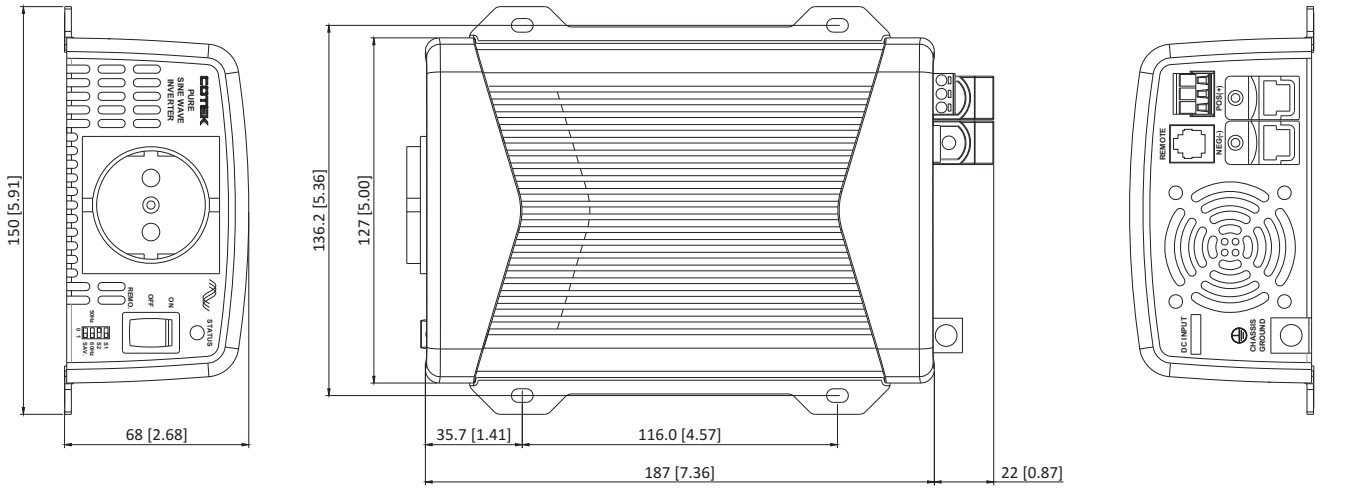
MODEL		SE350-112	SE350-124	SE350-148	SE350-212	SE350-224	SE350-248
Output	AC Voltage	100 / 110 / 115 / 120VAC ±5%			200 / 220 / 230 / 240VAC ±5%		
	Rated Power	350W					
	Surge Power	700W					
	Waveform	Pure Sine Wave (THD < 3% @rated VDC, linear load)					
	Frequency	50 / 60Hz ±0.1%					
Input	DC Voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC
	Voltage Range	10.0 ~ 15.5VDC	20.0 ~ 31.0VDC	40.0 ~ 62.0VDC	10.0 ~ 15.5VDC	20.0 ~ 31.0VDC	40.0 ~ 62.0VDC
	Efficiency (@rated Vdc.full load)	87%	88%	89%	89%	90%	91%
	No load power consumption	@12VDC	@24VDC	@48VDC	@12VDC	@24VDC	@48VDC
	On mode @ save mode	< 90 mA	< 60 mA	< 40 mA	< 90 mA	< 60 mA	< 40 mA
	On mode @ no load mode	< 0.65A	< 0.32A	< 0.16A	< 0.9A	< 0.5A	< 0.25A
Protection	BAT. Low Shutdown	10.0VDC	20.0VDC	40.0VDC	10.0VDC	20.0VDC	40.0VDC
	BAT. Low Alarm	10.5VDC	21.0VDC	42.0VDC	10.5VDC	21.0VDC	42.0VDC
	BAT. Low Restart	12.0VDC	24.0VDC	48.0VDC	12.0VDC	24.0VDC	48.0VDC
	BAT. High Alarm	15.0VDC	30.0VDC	60.0VDC	15.0VDC	30.0VDC	60.0VDC
	BAT. High Shutdown	15.5VDC	31.0VDC	62.0VDC	15.5VDC	31.0VDC	62.0VDC
	BAT. High Restart	14.5VDC	29.0VDC	58.0VDC	14.5VDC	29.0VDC	58.0VDC
	Protection	Overload, Short circuit, DC over/under voltage, Over temperature					
	DC Input Reverse Polarity	By fuse					
Environment	Working Temp.	-20°C ~ +60°C; refer to SE350 power de-rating curve					
	Storage Temp.	-30°C ~ +70°C					
	Working Humidity	Max. 90% RH non-condensing					
Safety & EMC	Safety Standards	—			Certified EN 60950-1		
	EMC Standards	—			Certified EN 55022 Class B; EN 61000-3-2; EN 61000-3-3; IEC 61000-4-2,3,4,5,6,8,11; EN 55024; EN 61000-6-3; EN 61204-3; EN 61000-6-1		
	E-Mark	—			Certified CISPR 25; ISO 7637-2		
Others	Dimension (WxHxD)	150x68x187 mm / 5.91x2.68x7.36 inch					
	Packing	1.6kg; 6pcs / 10.6kg / 1.45CUFT					
	Cooling	Load (53±5%) and temperature (55±5%) control fan					
	Application	Home and Office appliances, Portable Power Equipment, Vehicle, Yacht and Off-Grid Solar power systems ...etc.					

LED Status:

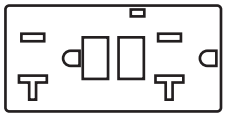
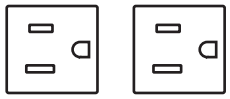
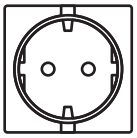
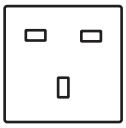
Status	LED Signal
Power on	
Normal	
Saving mode	
O/P overload (100%~115%)	
O/P short circuit	
Over temperature	
Shut down high battery	
High battery	
Low battery	
Shut down low battery	

Mechanical Drawings:

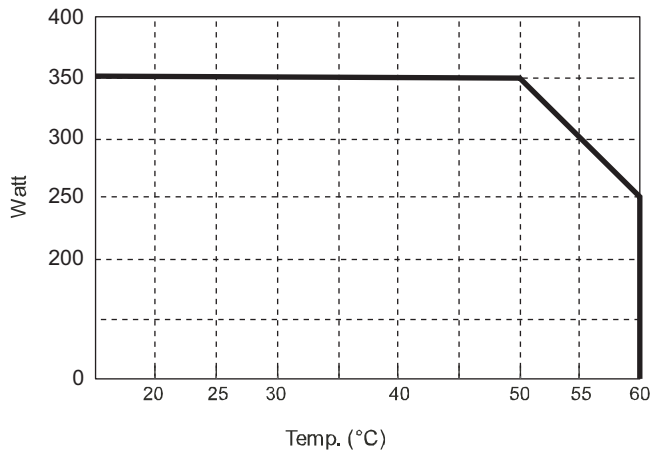
unit : mm / [inch]



Output socket (option):

North America (GFCI)	NEMA 5-15R			
				
Continental Europe	**Australia / New Zealand**	**United Kingldom**	**Universal**	**France Connector**
				

De-rating Curve:



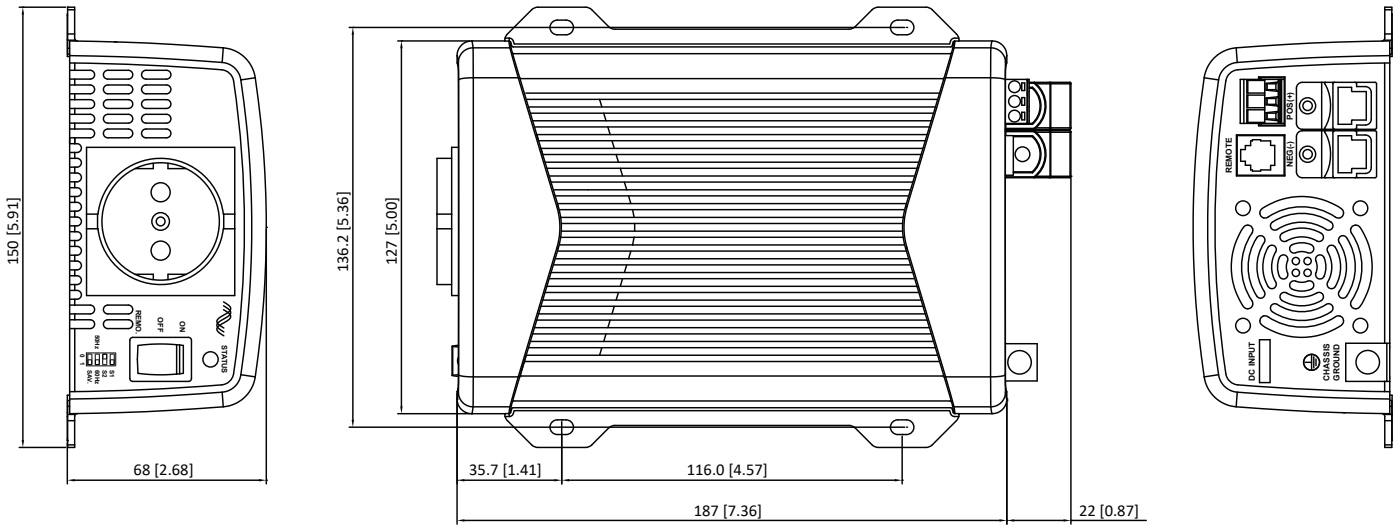
Feature:

- Pure sine wave output
- Power ON / OFF remote control (Green Terminal)
- Remote controller CR-8 (optional)
- Input & Output fully isolation
- Temperature & Load controlled cooling fan
- Built in advance microprocessor to provide friendly interface
- Output frequency 50 / 60 Hz selectable by DIP switch
- Output voltage DIP switch selectable
- Adjustable power saving mode by variable resister
- Input protection: Reverse Polarity (Fuse) / Under Voltage / Over Voltage
- Output protection: Short Circuit / Overload / Over Temperature
- E13 / UL / CE / FCC approved

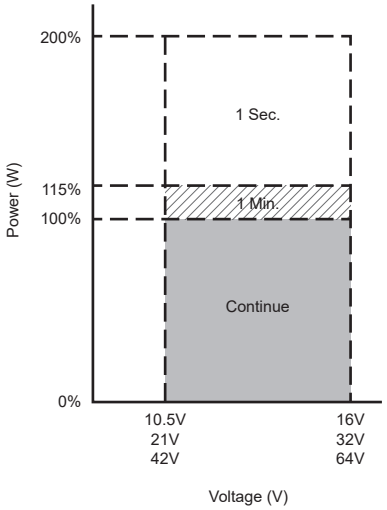
Model No.		SE400-112	SE400-124	SE400-148	SE400-212	SE400-224	SE400-248
Output	AC Voltage	100 / 110 / 115 / 120VAC			200 / 220 / 230 / 240VAC		
	AC Regulation	±3%			±3%		
	Rated Power	400VA					
	Surge Power (1 Sec)	<800VA					
	Maximum Output Power (1 Min)	>400VA~460VA (100%~115%)					
	Output Waveform	Pure Sine Wave (THD<5%@Normal Load NOTE1)			Pure Sine Wave (THD<5%@Normal Load NOTE2)		
	Frequency	50 / 60 Hz ±0.5%					
Input	DC Voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC
	Voltage Range	10.5 ~ 16.0VDC	21.0 ~ 32.0VDC	42.0 ~ 64.0VDC	10.5 ~ 16.0VDC	21.0 ~ 32.0VDC	42.0 ~ 64.0VDC
	NO Load Current	≤1.0A@12VDC	≤0.5@24VDC	≤0.25A@48VDC	≤1.0A@12VDC	≤0.5A@24VDC	≤0.25A@48VDC
	Power Saving Mode	<0.2A@12VDC	<0.1A@24VDC	<0.05A@48VDC	<0.2A@12VDC	<0.1A@24VDC	<0.05A@48VDC
	Efficiency (Max.)	88%	89%	90%	88%	89%	90%
Protection	Input Under - Voltage Protection	10.5 VDC ±0.3	21.0 VDC ±0.5	42.0 VDC ±1.0	10.5 VDC ±0.3	21.0 VDC ±0.5	42.0 VDC ±1.0
	Input Under - Voltage Recovery	12.5 VDC ±0.3	25.0 VDC ±0.5	50.0 VDC ±1.0	12.5 VDC ±0.3	25.0 VDC ±0.3	50.0 VDC ±0.3
	Input Over - Voltage Protection	16.0 VDC ±0.3	32.0 VDC ±0.5	64.0 VDC ±1.0	16.0 VDC ±0.3	32.0 VDC ±0.5	64.0 VDC ±1.0
	Input Over - Voltage Recovery	14.5 VDC ±0.3	29.0 VDC ±0.5	58.0 VDC ±1.0	14.5 VDC ±0.3	28.0 VDC ±0.5	56.0 VDC ±0.5
	Output Overload	Shutdown output voltage, restart to recover					
	Output Short	Shutdown output voltage, restart to recover					
	Over Temperature	Heat sink temperature over 80°C±5°C, shutdown output voltage, recover automatically after heat sink temperature goes down to 60°C±5°C					
	DC Input Reverse Polarity	By fuse					
Environment	Operating Temp.	-20 ~ +40°C ; 60 °C °C @40% power load					
	Storage Temp.	-30°C ~ +70°C					
	Storage Temp. & Humidity	10 ~ 95% RH					
Safety & EMC	Safety Standards	Certified UL 458 NOTE3		---	Certified EN 60950-1		
	EMC Standards	Certified FCC class B			Certified EN 55022 class B; EN 55024 EN 61000-3-2, -3-3 EN 61000-4-2, 3, 4, 5, 6, 8, 11		
	E-mark	---			Certified CISPR 25 ISO 7637-2		
Control & Signal	Accessory (Optional)	Remote Control: CR-8					
	LED Indicator	Input voltage level, output load level and faulty status					
	Dry Contact Terminal	By relay					
	Remote Control Terminal	3-port green terminal					
Others	Product Dimension (W x H x D)	150 x 68 x 187 mm					
	Packing	Per Product1.22kgs ; Per Carton 9pcs /13.93kg /1.45CUFT					
	Cooling	Temperature & load controlled cooling fan					
	Application	Home and office appliances, portable power equipment, vehicle, yacht and off-grid Solar power systems ...etc.					
	Socket Type	North America (GFCI) North America (NEMA 5-15R)			Continental European (SCHUKO) Australia / New Zealand United Kingdom Universal France Connector		

Note1 - Normal Condition: Vin=12.5V / 25V / 50V Vo=100 / 110 / 115 / 120 VAC 80% Full load (PF=1.0)
Note2 - Normal Condition: Vin=12.5V / 25V / 50V Vo=200 / 220 / 230 / 240 VAC 80% Full load (PF=1.0)
Note3 - UL only for GFCI receptacles

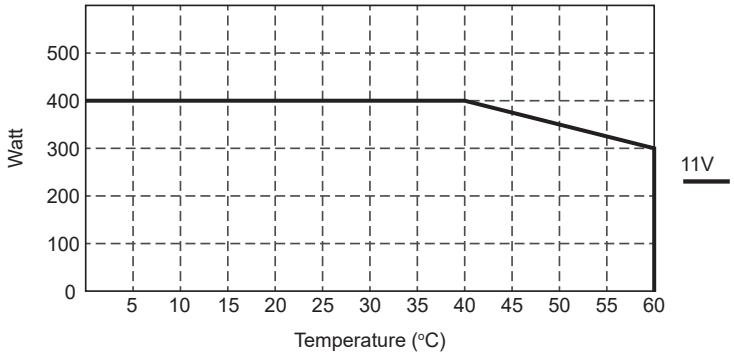
Mechanical Drawings :



SE400 Voltage & temperature performance :



SE400 voltage performance



SE400 temperature performance