

## Description

Products:	Split Core Current Transformer
Type:	CT-SP-100A~1000A-5A
Carried Standard:	GB1208-2006

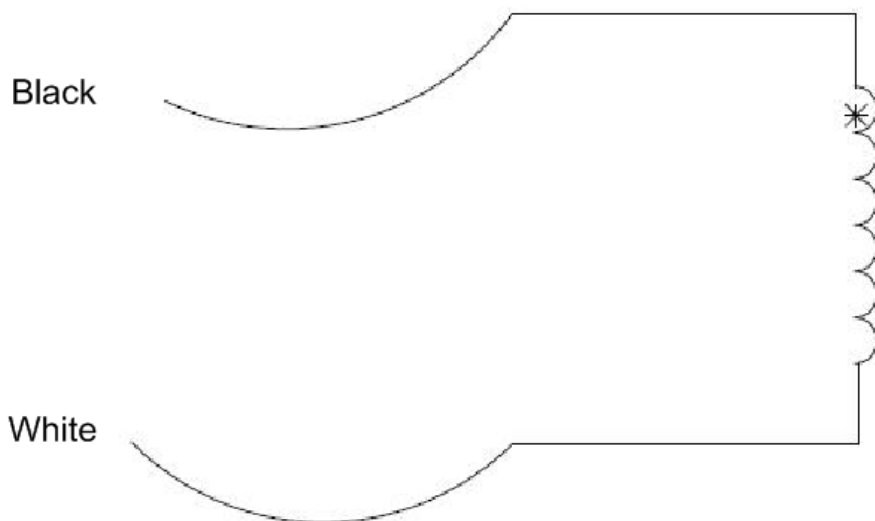
Split Core Current Transformer is designed to provide a low cost method to monitoring electrical current. A unique hinge and locking snap allows attachment without interrupting the current-carrying wire. High secondary turn will develop signals up to 10Vac across a burden resistor.



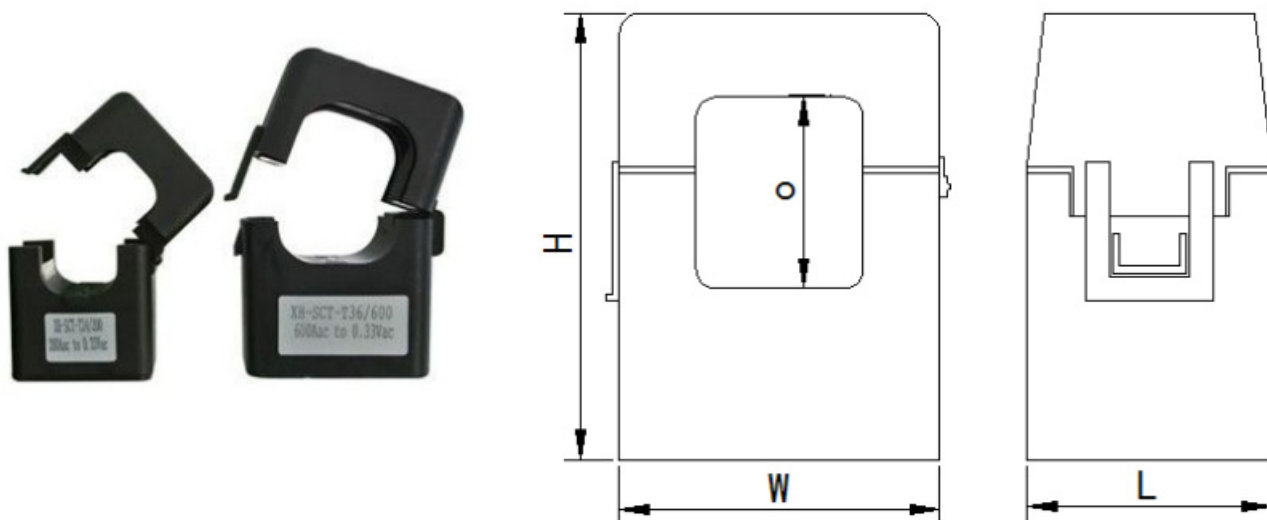
## Specifications

Maximum Continuous Primary Current:	100A~1000A AC
Output:	1A or 5A at rated current
Accuracy:	1% 2VA
Insulation Voltage	600V AC
Maximum Primary Voltage:	5000V AC (insulated conductor)
Phase angle:	less than 2 degrees at 50% of rated current
Frequency Range	50 to 400Hz
Operating Temperature:	-15 to 60°C
Leads:	1.0m cable
Indoor or Outdoor use, and outdoor type with rubber cover	
CE standard ROHS Directive-compliant	
Output and leads can be customized	

Product Structure Drawing



Mechanical Dimensions(unit:mm)



Item	Lin	Lo	Dimensions			
	A	A	L	W	H	O
			mm	mm	mm	mm
XH-SCT-T24	100-300	5/1	35	46	65.4	24
XH-SCT-T36	100-600	5/1	41.4	57.5	85.2	36
XH-SCT-T50	100-1000	5/1	60	58.2	120	50

## Typical Product Parameter List

### 1)5A Output

Product Standard	Input Current (A)	Output Current(A)	Overload Current(A)	Wire Size	Non Linearity Error (5%120%)	
					F(I)%	$\sigma$ (I)°
CT-SP-100A-5A	100	5	170	2.5mm $\phi$ /1m	$\leq 1\%$	$\leq 1^\circ$
CT-SP-250A-5A	250	5	420	2.5mm $\phi$ /1m	$\leq 0.5\%$	$\leq 0.7^\circ$
CT-SP-300A-5A	300	5	540	2.5mm $\phi$ /1m	$\leq 0.5\%$	$\leq 0.2^\circ$
CT-SP-400A-5A	400	5	720	2.5mm $\phi$ /1m	$\leq 0.5\%$	$\leq 0.2^\circ$
CT-SP-600A-5A	600	5	960	2.5mm $\phi$ /1m	$\leq 0.5\%$	$\leq 0.1^\circ$

### 2)1A Output

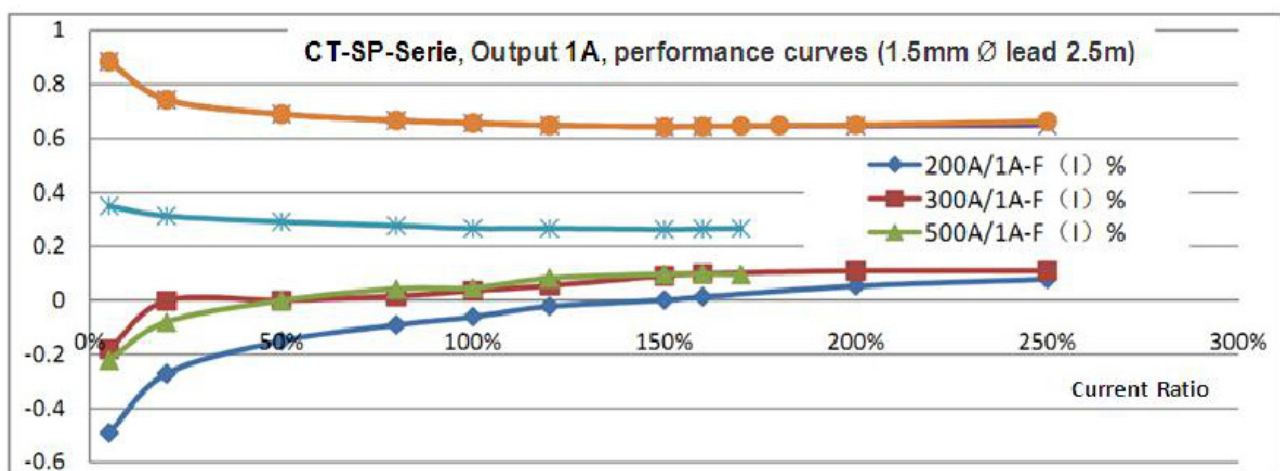
Product Standard	Input Current (A)	Output Current(A)	Overload Current(A)	Wire Size	Non Linearity Error (5%120%)	
					F(I)%	$\sigma$ (I)°
CT-SP-200A-1A	200	1	600	1.5mm $\phi$ /2.5m	$\leq 0.5\%$	$\leq 0.3^\circ$
CT-SP-300A-1A	300	1	700	1.5mm $\phi$ /2.5m	$\leq 0.5\%$	$\leq 0.2^\circ$
CT-SP-500A-1A	500	1	800	1.5mm $\phi$ /2.5m	$\leq 0.5\%$	$\leq 0.1^\circ$

### 3) 5A Output

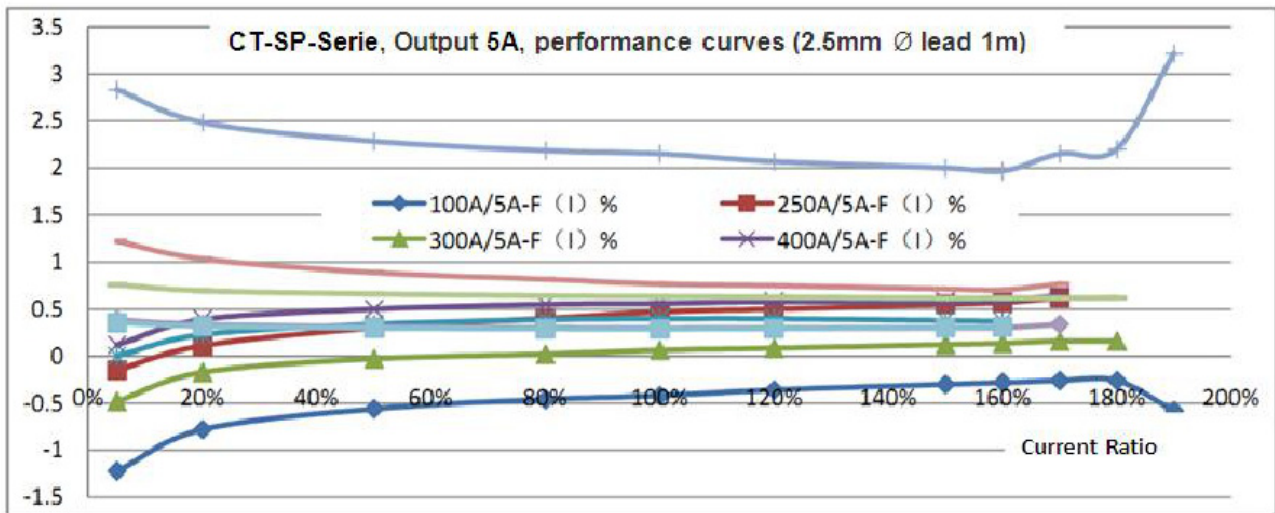
Input(A)	Max Current(A)	Turns(T)	Accuracy	Burden	Output
600-1000A	1000	120T	0.5	2.0VA	5A

## Typical Performance Curves

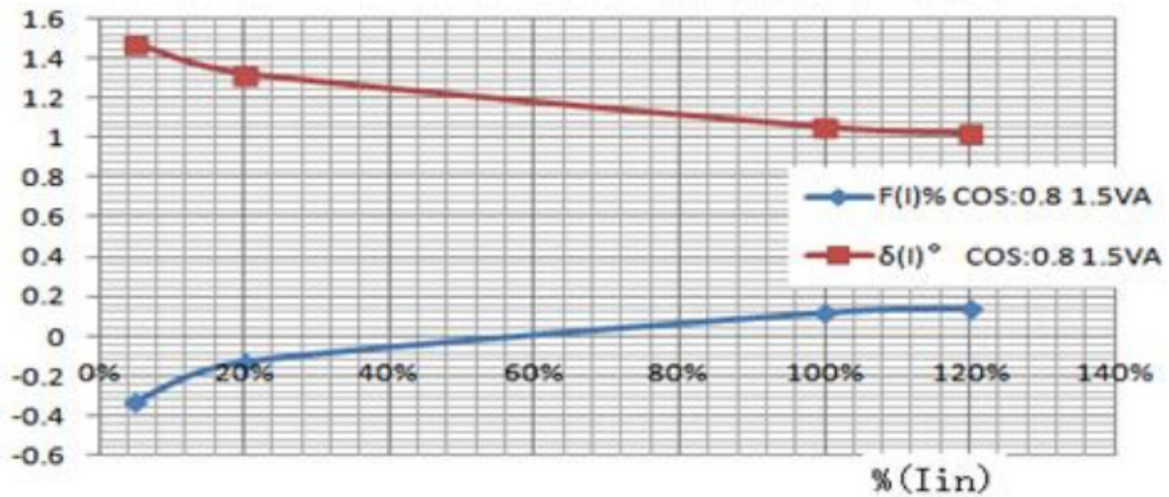
Split core current transformer



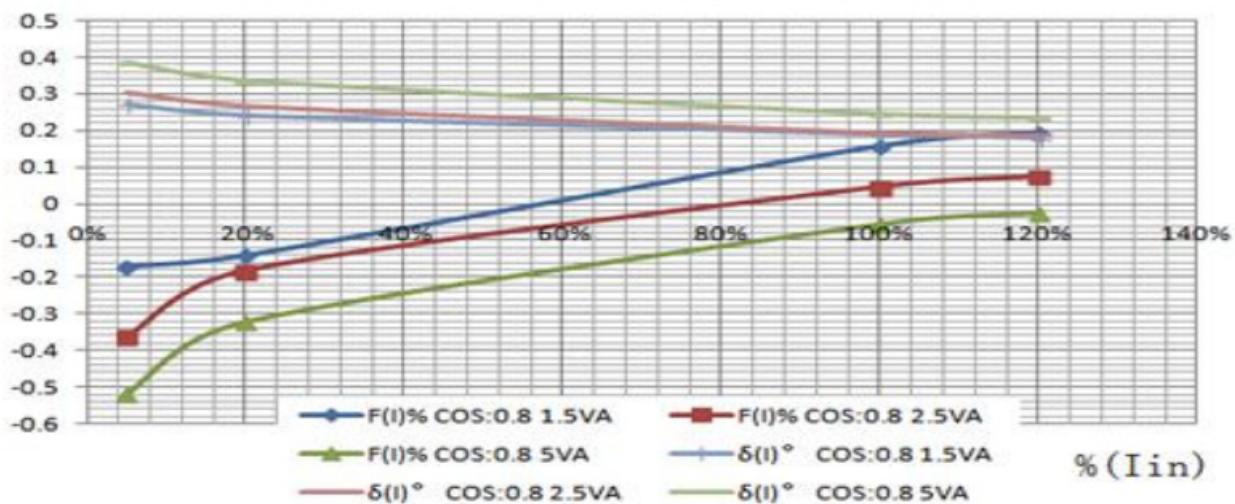
# Split Core Current Transformer



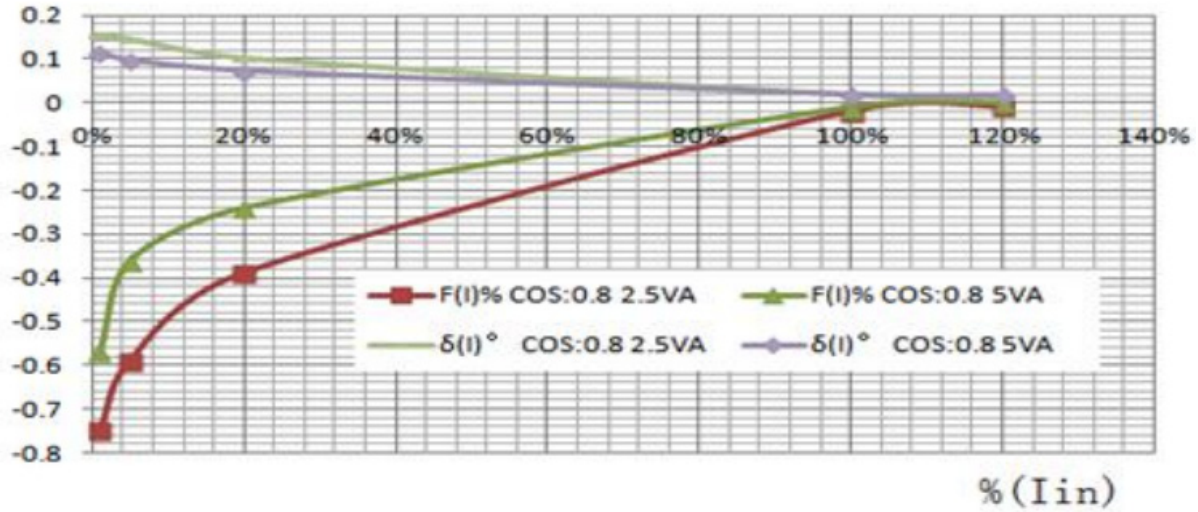
CT-SP-200A/ 5A ,Performance Curves



CT-SP-600A /5A ,Performance Curves



CT-SP-1000A /5A ,Performance Curves



NO	Materials	Specifications
1	Silicone steel core	T24
2	Nyion Housing	SCT0024-01B
3	Skeleton	T24
4	Enameled Wire	∅ 0.85
5	Black Wire Lead	1.5m <sup>2</sup>
6	Red wire lead	

## Test Report

## 1)Performance Test

a Test Condition

Input 100A,Output 5A,ratio error 0.5 class

No	Input	20%	50%	100%	120%	Instrument
1	Phase error(minute)	443	421	487	515	
2	Ratio error(%)	-0.96	0.001	0.13	0.001	
	Phase error(minute)	300	200	265	280	
3	Ration error	-0.98	-0.25	-0.11	-0.28	
	Phase error(minute)	287	259	283	294	

Test Result:Qualified

## 2)Hi-pot test

Test Index	Instrument
Wire-housing:2000V/0.5mA/3S	YD2665 hi-pot tester