

Shandong YUANXING Electronics Co., Ltd.

Product Specification

Description: Split Core Current Transformer

Part No.: CTSA016-100A/100mA

Date: 2025-11-24

Customer Approval			Vendor Approval		
Designer	Checker	Approver	Designer	Checker	Approver
			Xiaoyan Xing	MaHongliang	YanAiqin
Approval Date:			Approval Date: 2025-12-03		

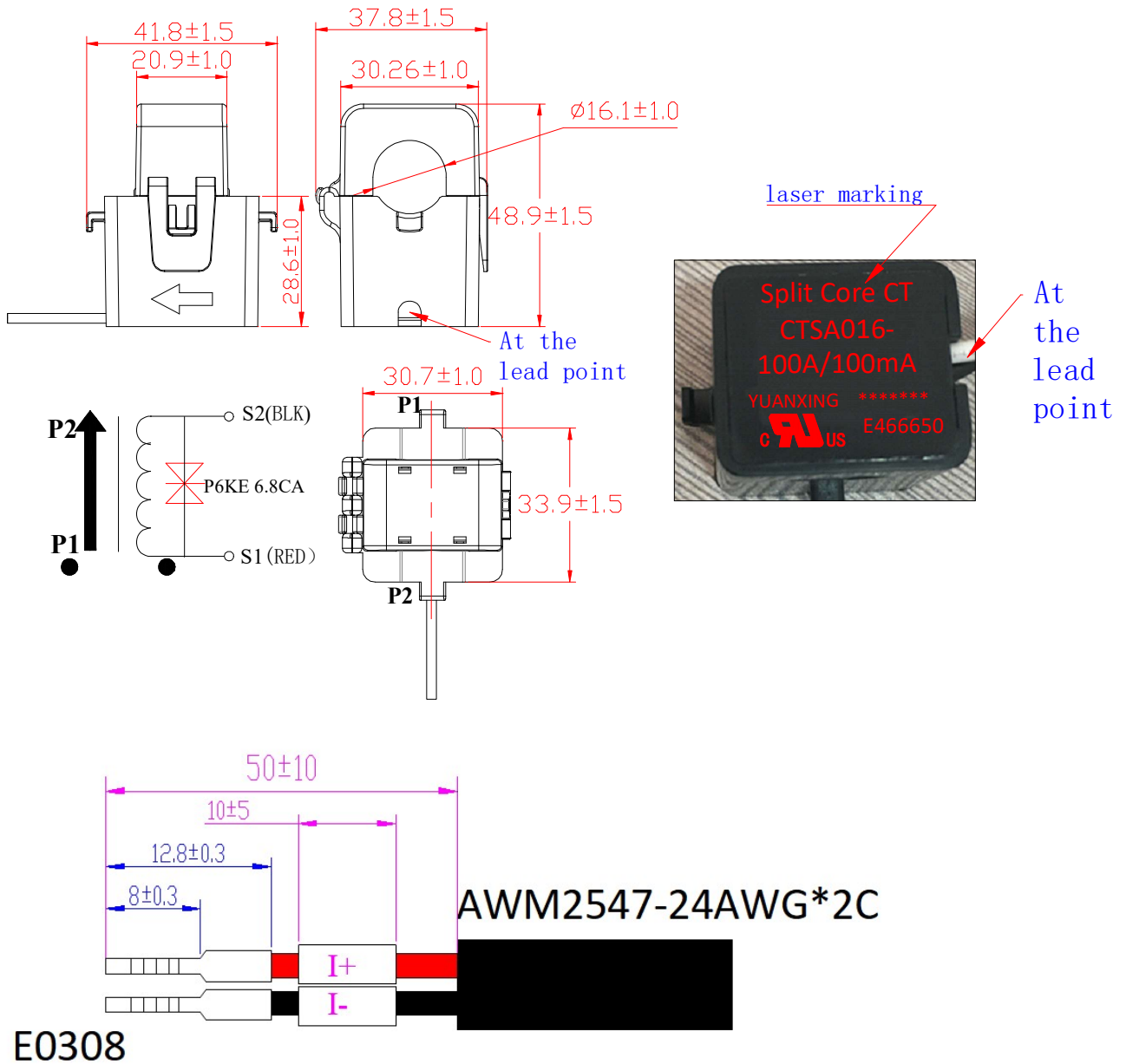
Version Change Instructions

Date	Item	Before Change	After Change
		Blank Below	

1. Technical Parameters:

Working Environment	Environment Temperature	-10°C~+50°C	Storage Temperature	-20°C~+70°C
	Relative Humidity	≤85%, No condensation	Atmospheric Pressure Condition	70-106kpa
Electrical Parameters	Rated Primary Current	100A	Ratio Error at Rated Primary	±0.5%
	Rated Secondary Output	100mA	Phase Error at Rated Primary	<60'
	Accuracy Class	Class 0.5	Rated Load	10Ω
	Same Polarity	P1 and White lead wire	Linear range	5%In--120%In
	Power Frequency Withstand Voltage	4000V/10s,1mA	Insulation Resistance	100MΩ/500VDC
	Open Circuit Protective Voltage	6-8V	Working Frequency	50/60HZ
	UL certification	E466650	Environmental Protection	RoHS compliant
	Case Material	Black, UL flame retardant rating 94-V0		
	Secondary Output Cable	AWM2547-24AWG*2C (Red, Black) jacketed wire, with 5.0 ±0.05m exposed shell length, and white tubular terminal crimped at the lead end. Red/black leads are marked with I+/I- numbered tubes		




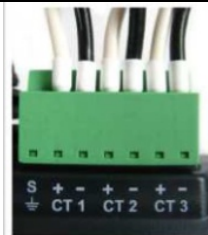
2. Outline Drawings, Schematic, Polarity Definition: (mm)



3. User Instructions:

Note: All work should be performed by a qualified electrician and use proper safety equipment.

1. Before connect CT to other equipment, please power off the circuit to prevent electric shock.
2. Open CT. One side has a small clasp and the other side is hinged. (See Photo 1)
3. Clip CT around the cable to be measured. Make sure the maximum current of cable does not exceed CT's rating value as indicated on the label of CT and the current direction is same as the arrow direction marked on CT.
4. Clip on the CT. You will hear it click. The cable should be in the middle of CT window. (See Photo 2)
5. Fix the CT on the cable with nylon cable ties. (See photo 3)
6. Connect the white output lead wire of CT to the positive terminal of measuring device. Connect the black output lead wire of CT to the negative terminal of measuring device. (See Photo 4)
7. Check and make sure there is no problem of the circuit, and put on the power, start measurement with CT.

Photo 1	Photo 2	Photo 3	Photo 4
			
Open CT	Clip CT around cable	Fix CT	CT connection