

Accu-CT[®] SPLIT-CORE CTs

Wide Range, Unprecedented Linearity



U.S. Patent 8,587,399
U.S. Patent 8,847,576

Overview

The Accu-CT family of standard and revenue-grade, split-core current transformers offers outstanding linearity, very low phase angle error, easy one-handed opening and closing, with a safe 0.333 Vac low voltage output.

The standard Accu-CT meets IEEE C57.13 class 1.2 and when ordered with the Option C0.6, both models of the Accu-CT meet IEEE C57.13 class 0.6 accuracy standards. Both models are available in standard and revenue-grade accuracies with exceptionally low-end accuracy from 1 to 120% of primary rated current – 10x better than traditional CTs. The ACTL-1250 can also be ordered with Option C0.3 for 0.3% accuracy readings. This is especially important when SREC requirements dictate system metering accuracies meeting or exceeding ANSI C12.1-2008 specifications.

Designed specifically for the WattNode[®] energy and power meters, the Accu-CT is available in two window opening sizes. The ACTL-0750 has a window opening of 0.75" x 0.75" for current measurements up to 250 amps while the ACTL-1250, with its unique oval shaped window opening of 1.83" x 1.25" is designed for loads up to 600 amps. Each option C0.6 or C0.3 CT ships with a certificate of calibration.

The ACT series of high-accuracy split-core current transformers are UL Listed, certified by Underwriters Laboratory (UL) to meet the new 2017 NEC code requirement that CTs installed in the field must be UL 2808 Listed under category code XOBA.

Specifications

	ACTL-0750	ACTL-0750 Opt C0.6	ACTL-1250	ACTL-1250 Opt C0.6	ACTL-1250 Opt C0.3
Accuracy	0.75%	0.50%	0.75%	0.50%	0.30%
Rated Amps	5, 20, 50, 150, 100, 200, 250	20, 50, 100, 150, 200, 250	250, 400, 600*	250, 400, 600*	250, 400, 600*
Optional Rated Amps	15, 30, 70	15, 30, 70	NA	NA	NA
Accuracy Class	IEEE/ANSI C57.13, Class 1.2	IEEE/ANSI C57.13, Class 0.6	IEEE/ANSI C57.13, Class 1.2	IEEE/ANSI C57.13, Class 0.6	IEEE/ANSI C57.13, Class 0.3
CE Accuracy	IEC 60044-1 Class 1.0	IEC 60044-1 Class 0.5 S	IEC 60044-1 Class 1.0	IEC 60044-1 Class 0.5 S	IEC 60044-1 Class 0.5 and Class 0.5 S
CE Safety	CE	CE	CE	CE	CE
RoHS Compliance	√	√	√	√	√
UL USA	UL Listed, XOBA, UL 2808	UL Listed, XOBA, UL 2808	UL Listed, XOBA, UL 2808	UL Listed, XOBA, UL 2808	UL Listed, XOBA, UL 2808
UL Canada	UL Listed - XOBA7	UL Listed - XOBA7	UL Listed - XOBA7	UL Listed - XOBA7	UL Listed - XOBA7
Standard Lead Length	8 ft (2.4m) 18 AWG	8 ft (2.4m) 18 AWG	8 ft (2.4m) 18 AWG	8 ft (2.4m) 18 AWG	8 ft (2.4m) 18 AWG
Phase Angle	±0.50 degrees	±0.25 degrees, ±0.50 degrees below 0°C	±0.50 degrees	±0.25 degrees	±0.125 degrees 10-120% of rated current. ±0.25 from 1%-120% of rated current.
Output Options	0.333 Vac, 1 V	0.333 Vac, 1 V	0.333 Vac, 1 V	0.333 Vac, 1 V	0.333 Vac, 1 V
Operating Temperature	-40°C to 80°C	-40°C to 80°C	-30°C to 75°C	-30°C to 75°C	-30°C to 75°C
Line Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz, 60 Hz is recommended and is the default
Option 50 Hz Available	√	√	Not required	Not required	√

*100 mA output available in the ACTL-1250-600 model.



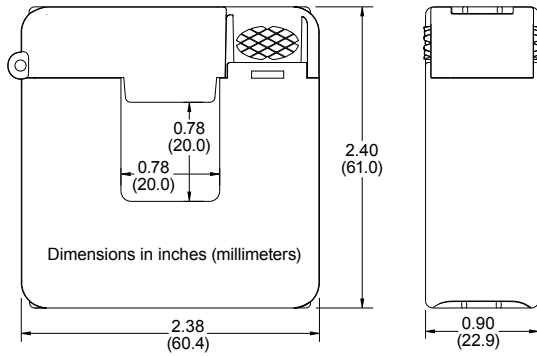
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ACTL-1.5.19: Specifications are subject to change

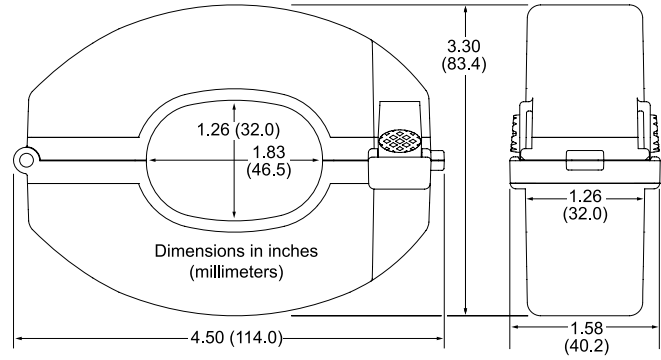


Dimensions

ACTL-0750

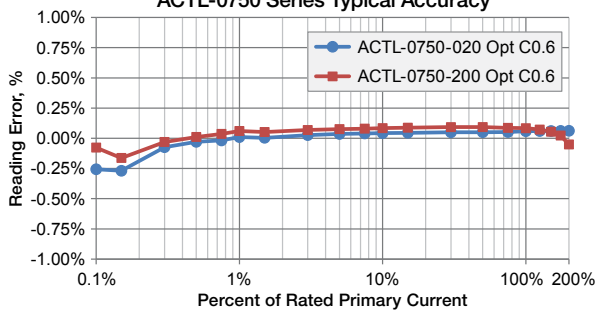


ACTL-1250

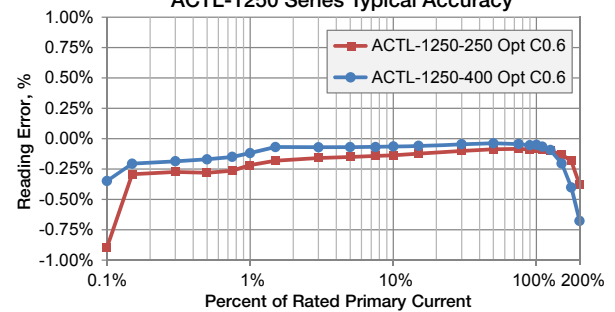


Performance

ACTL-0750 Series Typical Accuracy



ACTL-1250 Series Typical Accuracy



Graphs show typical performance at 23°C, 60 Hz. Graph shows a positive phase angle when the output leads the primary current.

Model Numbers and Prices

For options and non-stock models, consult factory for pricing.

Standard ACTL-0750 Models	MSRP	Revenue (C0.6) ACTL-0750 Models	MSRP
ACTL-0750-005	\$48.88	Not Available	NA
ACTL-0750-020	\$48.88	ACTL-0750-020 Opt C0.6	\$59.28
ACTL-0750-050	\$48.88	ACTL-0750-050 Opt C0.6	\$59.28
ACTL-0750-100	\$48.88	ACTL-0750-100 Opt C0.6	\$59.28
ACTL-0750-150	\$48.88	ACTL-0750-150 Opt C0.6	\$59.28
ACTL-0750-200	\$48.88	ACTL-0750-200 Opt C0.6	\$59.28
ACTL-0750-250	\$48.88	ACTL-0750-250 Opt C0.6	\$59.28

Standard ACTL-1250 Models	MSRP	Revenue (C0.6) ACTL-1250 Models	MSRP	Revenue (C0.3) ACTL-1250 Models	MSRP
ACTL-1250-250	\$58.24	ACTL-1250-250 Opt C0.6	\$69.68	ACTL-1250-250 Opt C0.3	\$80.08
ACTL-1250-400	\$58.24	ACTL-1250-400 Opt C0.6	\$69.68	ACTL-1250-400 Opt C0.3	\$80.08
ACTL-1250-600	\$58.24	ACTL-1250-600 Opt C0.6	\$69.68	ACTL-1250-600 Opt C0.3	\$80.08

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