

# Ultra-precise Calibrated CT Series

Split-core current sensors for use with PQube® 3, 3r, 3LV & 3e

## Overview

Powerside's ultra-precise shielded split-core CTs are specially designed to meet the most demanding accuracy specifications. They are quick to install and safe to operate. They are the ideal accessory to use for very accurate current and power measurements.

For use with your PQube PowerAnalyzers 3, 3r, 3LV & 3e current inputs. The split-core CT provides low voltage linear output, proportional to the measured current.

They can be used with all 8 current channels on PQube® 3/3r/3LV, or all 14 current channels of the PQube® 3e.

## Features

- Easy, safe, and quick to install: clamp around the conductor & connect it to the PQube® 3
- Fully shielded double-insulated cable for noise immunity
- Large range of rated currents: 5A through 300A
- Specifically designed for excellent frequency response in measuring harmonics up to the 50th harmonic at 50/60 Hz
- Ultra-accurate certified revenue grade exceeds ANSI C12.20 Class 0.2, IEC 62053-22 Class 0.2 S, IEC 61000-4-7 Class I harmonic accuracy
- Calibrated with a NIST-trace certificate that combines both the CT and PQube 3 for accuracy and is UL Listed



# Specifications

ELECTRICAL SPECIFICATIONS	
<b>Rated Current</b>	5 A to 300 A (reference tables below)
<b>Nominal Output (at Rated Current)</b>	0.333 Vrms Load Resistance (burden): 33.3 k $\Omega$
<b>Crest factor (Peak to RMS)</b>	3.5
<b>Fundamental Frequency</b>	50 / 60 / 400 Hz
<b>Frequency Bandwidth (-3dB)</b>	40 to 3000 Hz Harmonic measurements calibrated to 50th harmonic at 50/60 Hz per IEC 61000-4-7, class I accuracy

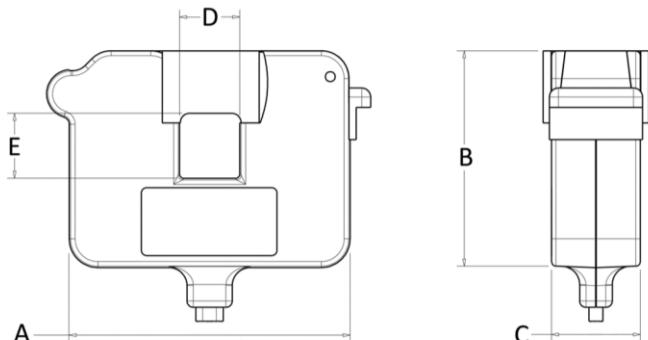
ACCURACY SPECIFICATION	
<b>Magnitude Accuracy (ratio error)</b>	$\pm 0.05\%$ typical, $\pm 0.1\%$ specification at 50/60 Hz 2.5% to 120% Full Scale combined CT and PQube® 3 Accuracy
<b>Phase Angle Accuracy</b>	$\pm 0.07^\circ$ typical, $\pm 0.1^\circ$ specification

SAFETY / COMPLIANCE	
<b>Working Voltage</b>	600 VAC, CAT III
<b>Certifications</b>	UL Recognized File #E469208 RoHs, CE

MECHANICAL / ENVIRONMENTAL SPECIFICATIONS	
<b>Installation Environment</b>	Temperature: -40 to 55°C (-40 to 131°F) Humidity: 0 to 95% non-condensing Altitude: up to 2000 meters Pollution Degree: 2
<b>Output Cable</b>	Length of Lead: 4 m (13 ft) Cable Size and Type: 18 AWG shielded twisted pair, 600V rating, UL1015 Double Insulated Signal: Black negative (-) and red or white positive (+)



## Order Information / Dimensions



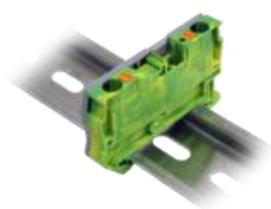
Dimension Reference: Snap-Top Design

### SNAP-TOP DESIGN

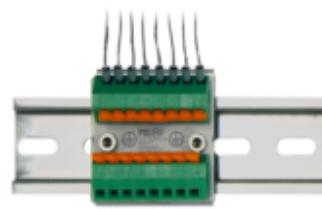
Powerside Ultra-Precise CT		Dimensions - mm (inches)				
Rated Current	Part Number	A	B	C	D	E
5 A	50 Hz: SCN3-5A:333mV-50Hz-0.7 XP 60 Hz: SCN3-5A:333mV-60Hz-0.7 XP	79 (3.10")	61 (2.39")	25 (0.98")	18 (0.70")	18 (0.72")
20 A	SCN3-20A:333mV-0.7 XP	79 (3.10")	61 (2.39")	25 (0.98")	18 (0.70")	18 (0.72")
50 A	SCN3-50A:333mV-0.7 XP	79 (3.10")	61 (2.39")	25 (0.98")	18 (0.70")	18 (0.72")
100 A	SCN3-100A:333mV-0.7 XP	79 (3.10")	61 (2.39")	25 (0.98")	18 (0.70")	18 (0.72")
150 A	SCN3-150A:333mV-0.7 XP	79 (3.10")	61 (2.39")	25 (0.98")	18 (0.70")	18 (0.72")
200 A	SCN4-200A:333mV-1.25 XP	84 (3.30")	81 (3.18")	29 (1.14")	32 (1.25")	34 (1.33")
300 A	SCN4-300A:333mV-1.25 XP	84 (3.30")	81 (3.18")	29 (1.14")	32 (1.25")	34 (1.33")

### ACCESSORIES

2 Position Terminal Block for CT Cable Shield  
Part Number: TB-GND-6.2MM-XX



16 Position Terminal Block for CT Cable Shield  
Part Number: SWG-16-00



## Contact Us

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TDS # 880-000143  
Version 4 – 07/25/2023

