



- High Accuracy and Linearity
- Two-Stage, Zero Flux Design
- Passive and Active (Electronic) Operation
- Multi-Ratio Design
- Primary Currents from 5 to 6000 Amperes
- 5 Amp or 1 Amp Secondary
- Open-Circuit Secondary Protection

6000A STANDARD CURRENT TRANSFORMER

DESCRIPTION

Precision two-stage toroidal current transformers find application as the reference in determining the accuracy of instrumentation current transformers.

The better than 50ppm (0.005%) accuracy in passive operation at 0.5VA common burden (typical Comparator burden) is further improved by activating an electronic processing circuit that effectively

removes core flux caused by voltage induced secondary burden.

Battery powered electronic burden cancellation improves the accuracy by typically a factor of five approaching 10ppm (0.001%).

The primary current conductor, typically a bus-bar or flexible cable, is threaded through the centre hole with one or more turns.

Several models feature wound primary turns to facilitate operation at lower current operation in the

region from 5 amperes to 100 amperes.

The multi-ratio configuration features a rotary switch ampere-turn selection arranged in a convenient binary format.

Models are available with or without electronic burden cancellation as well as a 5 ampere or 1 ampere normalized secondary current.

6000 AMPERE CT - AVAILABLE RATIO SETTINGS

| 1 Pri. Turn | 2 Pri Turns | 5 Pri Turns | 10 Pri Turns | 50 Pri Turns | 100 Pri Turns |
|-------------|-------------|-------------|--------------|--------------|---------------|
| 6000 | 3000 | 1200 | 600 | 120 | 60 |
| 5900 | 2950 | 1180 | 590 | 118 | 59 |
| 5800 | 2900 | 1160 | 580 | 116 | 58 |
| • | • | • | • | • | • |
| • | • | • | • | • | • |
| 700 | 350 | 140 | 70 | 14 | 7 |
| 600 | 300 | 120 | 60 | 12 | 6 |
| 500 | 250 | 100 | 50 | 10 | 5 |

Ratios: Relative to 5 or 1 ampere secondary - Note: 50 and 100 Primary Turns are Integral CT windings.

6000 AMPERE CT - SPECIFICATIONS


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| <p>PASSIVE ACCURACY (5% to 200% Excitation): 0.5VA Burden : Ratio: $\pm 0.005\%$, Phase: ± 0.3 minutes 2.5VA Burden : Ratio: $\pm 0.010\%$, Phase: ± 1.0 minutes</p> <p>ACTIVE ACCURACY (5% to 200% Excitation): 0.5VA Burden : Ratio: $\pm 0.001\%$, Phase: ± 0.1 minutes 2.5VA Burden : Ratio: $\pm 0.003\%$, Phase: ± 0.3 minutes</p> <p>Operating Frequency: 50 Hz / 60 Hz</p> | <p>DIMENSIONS (W x L x H): 7" x 21" x 23" (178mm x 533mm x 584mm)</p> <p>Primary Conductor Opening: 5", 127mm</p> <p>Weight: 80 lbs, 26 Kg</p> <p>Battery: 9 Volt, Alkaline, Qty. 2</p> <p>Battery Life: 40 hours typical, varies as a function of Ampere-Turns and Secondary Burden.</p> |
| <p>Other Features:</p> <ul style="list-style-type: none"> Wound 50 Turn and 100 Turn Primary Windings Secondary Open-Circuit Protection Excessive Burden (harmonic overload / clipping) Indicator Active Operation On/Off Indicator | |

ORDERING INFORMATION

| Item | Catalog No. |
|--|-----------------|
| 6000:5 Multi-Ratio Current Transformer, Passive and Electronic | PMT25090-000-00 |
| 6000:5 Multi-Ratio Current Transformer, Passive | PMT25090-000-01 |
| 6000:1 Multi-Ratio Current Transformer, Passive and Electronic | PMT25091-000-00 |
| 6000:1 Multi-Ratio Current Transformer, Passive | PMT25091-000-01 |

Please contact factory for other ratio configurations.

CONTACT INFORMATION

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|  | <p>Power Measurement Technologies Inc. 43 Riviera Drive Unit #7 Markham, Ontario Canada L3R 5J6</p> | <p>Tel: 905-944-1551 Fax: 905-944-1551 E-mail: sales@pmt-inc.com</p> |
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