

ELECTRICAL SAFETY
POWER QUALITY
ENERGY MANAGEMENT



Current Transformer Module E850 Series

- Din-rail mount Current Transformer Module designed to track actual usage of current consumption for each power circuit
- Accuracy better than 0.5%
- Easy installation

Current Transformer Module E850 Series



Product Description

E850 series din-rail mount current transformer module designed for multiple circuits monitoring in order to track actual usage of each power circuits for office, commercial building or data center.

Main Component – Current Transformer



The unique PCB mounted current transformers are designed to meet AC current sensing needs. Current transformer designs are made from the highest quality silicon steel cores available, and meet most of the common AC current measurement needs. The High Frequency (-F) products are designed for high frequency applications such as high frequency power supplies and AC-DC converter for measuring of RMS values up to 2000Hz. The current transformer is designed to comply with UL, CSA, CE, and RoHS standard.

Device Features

- To detect current flow through the wires up to 120 A
- Turn ratio $N_p: N_s = 1:3000$
- Accuracy better than 0.5%
- Response Frequency up to 2000Hz
- Each module monitors up to 6 circuits
- Circuits load current monitoring
- Circuits load current limit alarming
- Load-based cost allocation
- Load management

Benefits

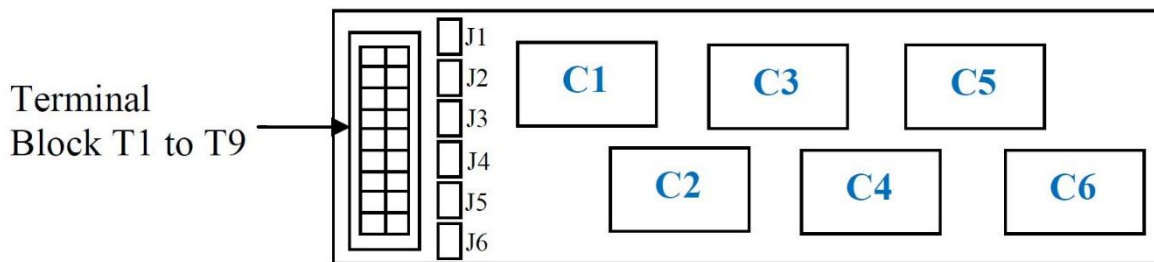
- Cost-effective – Single module able to measure up to 6 circuits.
- Easy Installation – Din-rail mounts design for easy installation.
- Simple Connection – Plug in type terminal block ease the installation.
- Circuits load current monitoring for billing purposes.
- Current limit alarm monitoring to avoid potential overload on the circuits.

Technical Specification

Specification

Rated Primary Current	60A Nominal (120A max)
Current Ratio	60A/20mA
Turns Ratio	Np:Ns = 1:3000
Current Transformer Diameter	8.9mm ± 0.3mm
D.C.Resistance	250 Max
Accuracy Rated Load	0.5%
Operating Temperature	-40 to 85 °C
Storage Temperature	-40 to 90 °C
Dielectric Withstanding Voltage (Hi-pot) for Current Transformer	4kVrms/1mA/1min
Impulse Withstanding Voltage for Current Transformer	5kV Peak
Insulation Resistance for current transformer	DC500V/100MOhm MIN
Dimension	145mm (W) x 45mm (L) x 50mm (H)

Connection Diagram



C1 to C6 – Current transformers

J1 to J2 – Short link terminals for individual current transformers

T1 to T9 – Terminal blocks for external cables connection

Terminal Number	Output Signal
T1	Secondary output for C1
T2	Common for C1 & C2
T3	Secondary output for C2
T4	Secondary output for C3
T5	Common for C3 & C4
T6	Secondary output for C4
T7	Secondary output for C5
T8	Common for C5 & C6
T9	Secondary output for C6

Dimensions & Ordering Code

Ordering Code

Order Number	Features
8	1st digit fix code for Current Transformer Module
5	2nd digit fix code for Current Transformer Module
X	Reserved
-	
X	1 = CR8349-3000, 2 = CR8349-3000-N
X	Reserved
X	Reserved
-	
6	Number of current transformer (Fixed)
X	Reserved
X	Reserved



Eetarp Engineering Pte Ltd

11 Woodlands Close, #08-13 | Woodlands 11
Singapore 737853
Tel: +65 6339 3651 | Fax: +65 6339 3667
Email: contact@eetarp.com
CRN: 200001617K

Eetarp Power (M) Sdn Bhd

A-5-11, Blk Allamanda
10 Boulevard, Lebuhraya Sprint
PJU 6A 47400, PJ | Selangor, Malaysia
Tel: +603 7729 3973 | Fax: +603 7729 8973
E-Mail: contact@eetarp.com
CRN: 1205228 P