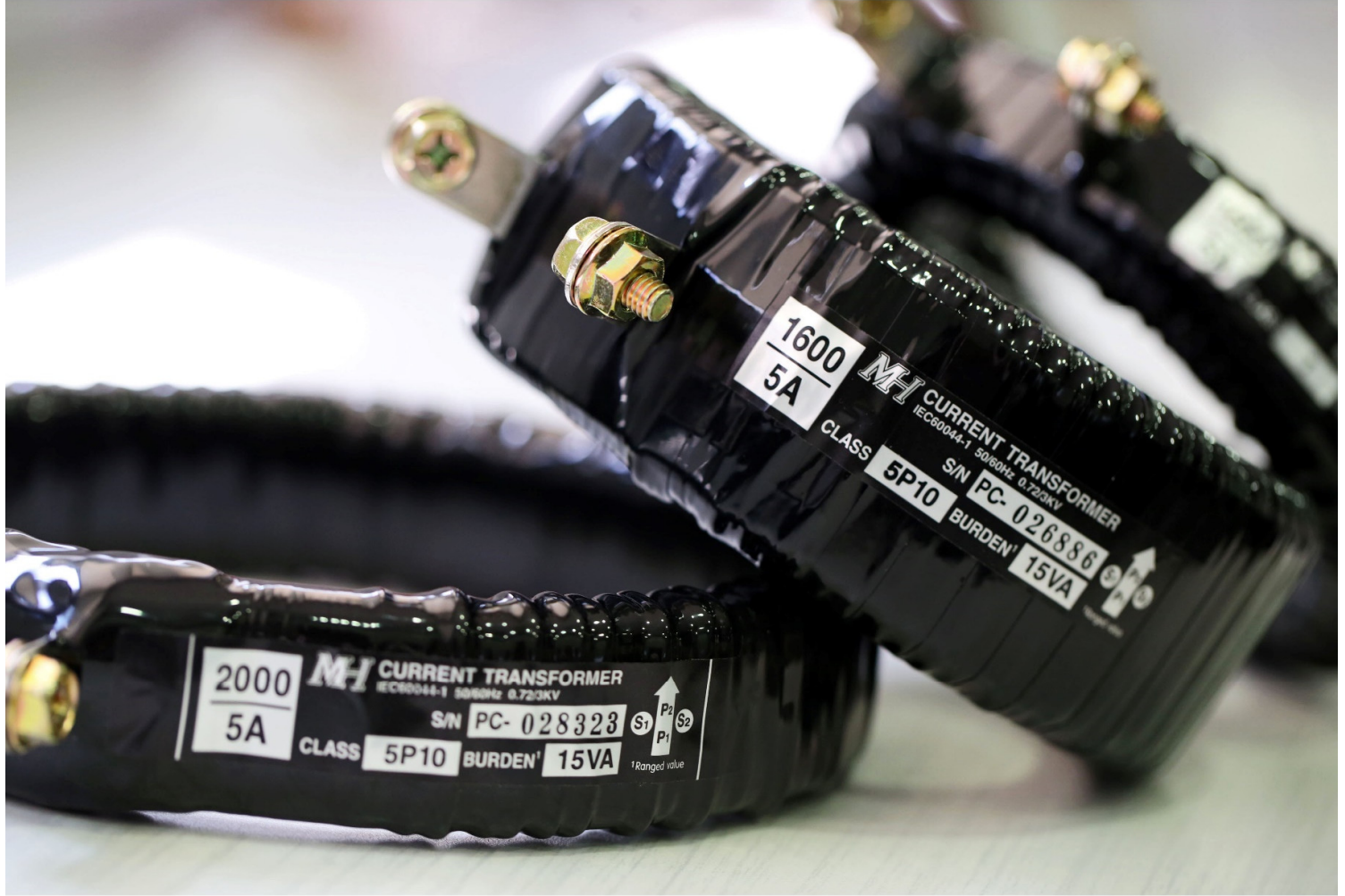


MH

MH Current Transformers



Current Transformer



MH Current Transformer

Tape wound construction for Low Voltage AC network measurement

Device Features

METERING CT

- Class 0.2 / 0.5S / 0.5 / 1
- Insulated tape wound

PROTECTION CT

- Class 5P/ 10P/ PX
- Insulated tape wound

Standard Compliance

- IEC 61869-1
- IEC 61869-2
- IEC 60044-1

Customized CT

- MH CT is available in custom built specification such as PX type requirement
- We have over 20 years' experience in making CT with precise tolerance & special performance

Product Description

MH Current Transformer (**MH CT**) is used in energy metering and protection application. Designed for use in low voltage 50/60Hz network, the current transformer is installed in electrical switch board, control panel or motor control centre. High grade annealed grain-oriented silicon steel is used for current transformer's core to provide improved accuracy and linearity of measurement.

The **MH Current Transformer** can be directly installed onto bare copper busbar up to 720VAC rating. Available in a wide variety of dimensions and current ratio rating. Connection to the secondary winding is made via two bolt terminals. Customized model can be manufactured to customer specification.

MH Current Transformer is designed, manufactured and tested in accordance with IEC 60044-1 and IEC 61869-1/2 standards. This ensures that each current transformer delivers accurate measurements when operating at the rated current or within the defined accuracy limit factors.

Product selection guide

METERING CT

Class 0.2	For measuring the energy for revenue proposes. Maximum of 0.2% ratio error at 100% rated current.
Class 0.5S	For measuring the energy purposes. Maximum of 0.5% ratio error from 20% rated current and above.
Class 0.5	For measuring the energy purposes. Maximum of 0.5% ratio error at 100% rated current.
Class 1	For general metering. Maximum of 1.0% ratio error at 100% rated current.

PROTECTION CT

5P	For stringent time graded coordination protection scheme. 5% composite error at rated accuracy limit factor.
10P	For general time coordination and instantaneous over current scheme. 10% composite error at rated accuracy limit factor.
PX	Special application where protection scheme requires precise parameter defined for Knee Point Voltage, Turn Ratio, Maximum Excitation Current at Knee Point, and CT Secondary Resistance. (Customized built item).

Examples of MH CT Specification

Metering CT	e.g. 400/5, CL1, 5VA 400A rated primary current, 5A rated secondary current, 5VA rated output, maximum 1% ratio error at 100% rated current.
Protection CT	e.g. 1,600/5, 5P10, 15VA 1,600A rated primary current, 5A rated secondary current, 15VA rated output, 5% composite error at 10x rated current.

Current Transformer

Standard Model Range

Technical Data	
Construction	Tape wound toroidal
Highest voltage	0.72V
Rated insulation level	3kV 60 sec
Rated frequency	50 or 60Hz
Insulating material	Homopolymer Polyvinyl Chloride
Class of insulation	B
Rated short-time thermal current	60 x I _{pri} (100kA max)
Applied technical standards	IEC 61869-1, IEC 61869-2
Certificates	CE, UKCA, RoHS



Rated Primary / Secondary Current	Rated output (VA)		CL 5P10	Class 0.2	Class 0.5	Class 1
	5	15				
6,000 / 5	•	•	•	•	•	•
5,000 / 5	•	•	•	•	•	•
4,000 / 5	•	•	•	•	•	•
3,200 / 5	•	•	•	•	•	•
3,000 / 5	•	•	•	•	•	•
2,500 / 5	•	•	•	•	•	•
2,000 / 5	•	•	•	•	•	•
1,600 / 5	•	•	•	•	•	•
1,500 / 5	•	•	•	•	•	•
1,250 / 5	•	•	•	•	•	•
1,200 / 5	•	•	•	•	•	•
1,000 / 5	•	•	•	•	•	•
800 / 5	•	•	•	•	•	•
600 / 5	•	•	•	•	•	•
500 / 5	•	•	•	•	•	•
400 / 5	•	•	•	•	•	•
300 / 5	•	•	•	-	•	•
200 / 5	•	•	•	-	•	•
150 / 5	•	•	•	-	•	•
120 / 5	•	-	-	-	-	•
100 / 5	•	•	•	-	•	•
80 / 5	•	-	-	-	-	•
60 / 5	•	•	-	-	•	•
50 / 5	•	-	-	-	-	•
40 / 5	•	-	-	-	•	•

Legend: • standard item

Note: Other rating and sizes are available on customized built order.

About MH Current Transformer

MH Current Transformer (MH CT) is designed and manufactured by Challenge Industrial Co. (Malaysia) Sdn. Bhd. which was founded in the year 1993 by a joint venture between Mun Hean and Challenge Industrial Co. Ltd. The MH Current Transformer is solely made under MH Instruments, a wing under Mun Hean Group. The founding of MH Current Transformer is in line with Mun Hean's flagship products, MH Protection Relays and Meters. In 1994, the product range for Protection Current Transformer is extended to Class X Type and subsequently in year 1996, Class 0.5 Metering Current Transformer was included into the production range. The complete chain of value creation including product design & development, production, and testing is based in Selangor, Malaysia. The major expansion of production area at the mid of year 2014 shows that the product demand of MH Current Transformer is increasing. Today, MH Current Transformer has been sold to Singapore, Malaysia, Hong Kong, Myanmar, Philippines, Indonesia and Vietnam, and it is the market leader in Malaysia and Singapore.



MH Current Transformers

Authorized Distributor:

A large, empty rounded rectangular box with a thin blue border, intended for the authorized distributor's name and contact information.