

5A TO 3000A PRIMARY

5A OR 1A SECONDARY

CLASS 0.5 · 1.0 · 3.0

AS 61869.2

0.72/3kV INSULATION

8 FRAME SIZES

NATA CERTIFICATION AVAILABLE

[View the CT-MES product page on satec-global.com.au ↗](#)

CT-MES Solid Core Current Transformers

Compact Plastic Case Current Transformers for Energy Metering

The CT-MES range is a family of compact solid core current transformers for energy metering and power monitoring. It is built for switchboard builders, electrical contractors and facility teams who need an accurate CT that fits tight panel space.

Eight frame sizes cover primary currents from 5A to 3000A with a 5A or 1A secondary. Every unit has integral hinged terminal covers that can be sealed and a self-extinguishing Class V0 case. Choose DIN rail, panel bracket or busbar clip mounting to suit the installation.



CT-MES-62 Series

62/20B, 62/20, 62/30 and 62/40.
Narrow 62mm body for 5/5A to 400/5A.

CT-MES-80 Series

80/30 and 80/40. 80mm body with fixing feet for 30/5A to 500/5A.

CT-MES-100 & 140 Series

100/60 and 140/100. Large windows for 600/5A to 3000/5A.

Main Features

- Eight frame sizes from 5A to 3000A primary
- 5A or 1A secondary current
- Accuracy Class 0.5, 1.0 or 3.0 subject to burden
- Rated output from 1.5VA to 25VA depending on model and ratio
- Compact plastic case with a smaller footprint
- Integral hinged terminal covers that can be sealed
- Self-extinguishing Class V0 casing
- DIN rail, foot, panel bracket or busbar clip mounting
- Insulation level 0.72/3kV for low voltage systems
- Rated frequency 50Hz to 60Hz
- Short-time thermal current $I_{th} = 60 \times I_n$
- Instrument security factor $FS < 5$
- Approved to IEC 61869-2, AS 61869.2, IEC 60044-1, AS 60044.1, BS 7626 and VDE 0414
- NATA certification available on application

Feature Capabilities

Compact Solid Core Design

ALL MODELS

- Closed solid core with the primary conductor passed through the window
- Plastic case with a much smaller footprint than conventional CTs
- Eight frame sizes so one family covers most LV metering points
- CT-MES-62/20B low current model with an integral primary bar for 5/5A to 150/5A

Metering Accuracy

CLASS 0.5 • 1.0 • 3.0

- Class 0.5 ratings available in all eight frame sizes
- Class 1.0 and Class 3.0 ratings for general monitoring and low ratios
- Rated output of 1.5VA to 25VA listed per ratio in the ratings tables
- Select an output that covers the meter burden plus the secondary cabling

Read more in [CT Meter Accuracy Explained](#).

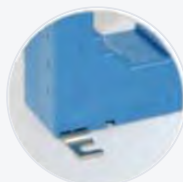
Flexible Mounting Options

DIN RAIL • PANEL • BUSBAR

Each CT-MES mounts the way the switchboard needs it. Fix it to DIN rail through an adapter, to a panel with the metal bracket or directly onto a busbar with a support clip.



Hinged sealable terminal cover



Metal bracket for panel mounting



Busbar support mounting



DIN rail mounting via adapter

Safety and Protection

LV SYSTEMS UP TO 0.72kV

- Instrument security factor $FS < 5$ limits secondary current during faults to help protect connected meters
- Short-time thermal current of $60 \times I_n$
- Insulation level 0.72/3kV at 50Hz to 60Hz
- Self-extinguishing Class V0 casing
- Sealable terminal covers deter tampering and protect live terminals

Standards and Certification

AUSTRALIAN AND INTERNATIONAL

- Approved to IEC 61869-2 and AS 61869.2
- Also approved to IEC 60044-1, AS 60044.1, BS 7626 and VDE 0414
- NATA certification available on application
- Learn about [AS 61869 metering CTs](#)

Part of a Complete SATEC Metering System

MATCHED CTs AND METERS

Pair CT-MES transformers with any SATEC power meter that accepts 5A or 1A current inputs to build a complete metering point from one supplier. Where the conductor cannot be disconnected choose [split core current transformers](#). For high accuracy applications see the [HACS high accuracy current sensors](#). Browse the full range of [current transformers for energy meters](#).

Specifications

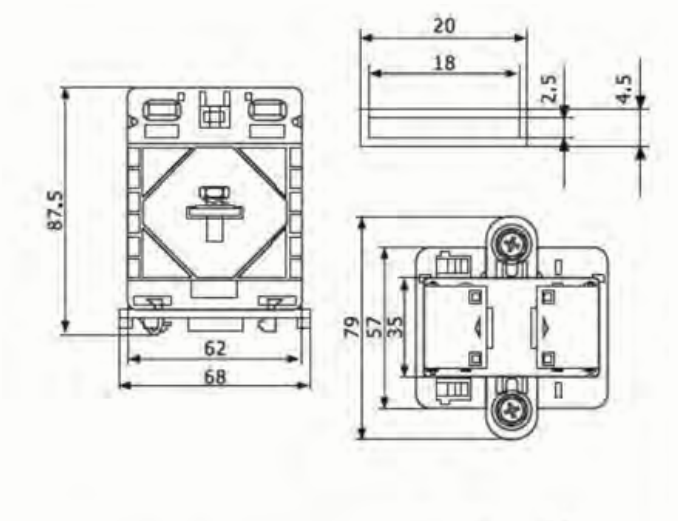
ELECTRICAL		CONSTRUCTION	
Rated primary current	5A to 3000A (model dependent)	Type	Solid core, window type
Rated secondary current	5A or 1A	Casing	Plastic, self-extinguishing Class V0
Rated frequency	50Hz to 60Hz	Terminals	Integral hinged terminal covers, sealable
Insulation level	0.72/3kV	Frame sizes	8
Short-time thermal current	I _{th} = 60 × I _n	Dimensions	See model overview and drawings
Instrument security factor	FS < 5		
ACCURACY AND OUTPUT		MOUNTING	
Accuracy class	0.5, 1.0 or 3.0 (subject to burden)	DIN rail	Via DIN rail adapter
Rated output	1.5VA, 2.5VA, 3.75VA, 5VA, 10VA, 15VA, 20VA, 25VA	Panel	Metal mounting bracket or fixing feet
Ratings by ratio	See ratings tables, pages 4 to 6	Busbar	Busbar support mounting clip
Certification	NATA certification on application		

Model	Ratio range	Accuracy class	Rated output	W × H × D (mm)	Max. cable
CT-MES-62/20B	5/5A to 150/5A	0.5, 1.0	1.5VA to 2.5VA	68 × 87.5 × 57 (79 incl. primary terminals)	Integral primary bar
CT-MES-62/20	30/5A to 200/5A	0.5, 1.0, 3.0	1.5VA to 5VA	68 × 87.5 × 57	Ø22mm
CT-MES-62/30	30/5A to 200/5A	0.5, 1.0, 3.0	1.5VA to 5VA	68 × 87.5 × 57	Ø30mm
CT-MES-62/40	60/5A to 400/5A	0.5, 1.0	1.5VA to 10VA	68 × 87.5 × 57	Ø30mm
CT-MES-80/30	30/5A to 200/5A	0.5, 1.0, 3.0	1.5VA to 5VA	80 × 86.5 × 77	Ø30mm
CT-MES-80/40	100/5A to 500/5A	0.5, 1.0	2.5VA to 10VA	80 × 86.5 × 77	Ø30mm
CT-MES-100/60	600/5A to 1200/5A	0.5, 1.0	10VA to 20VA	101 × 118 × 77.4	Ø50mm
CT-MES-140/100	800/5A to 3000/5A	0.5, 1.0	15VA to 25VA	140 × 155 × 53	Ø86mm

Dimensions are overall and taken from the factory drawings. Busbar window sizes are shown on each drawing on pages 4 to 6.

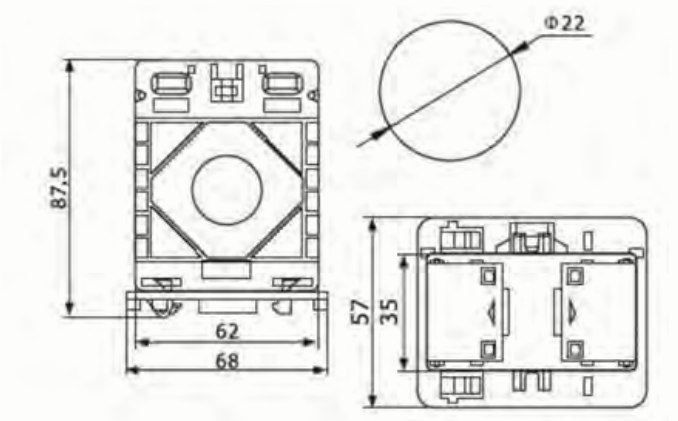
Specifications (continued): Ratings and Dimensions

CT-MES-62/20B · 5/5A to 150/5A



Rated current (A)	Rated output (VA)		
	Class 0.5	Class 1.0	Class 3.0
5/5	1.5	2.5	n/a
10/5	1.5	2.5	n/a
15/5	1.5	2.5	n/a
20/5	1.5	2.5	n/a
25/5	1.5	2.5	n/a
30/5	1.5	2.5	n/a
40/5	1.5	2.5	n/a
50/5	1.5	2.5	n/a
60/5	1.5	2.5	n/a
75/5	1.5	2.5	n/a
100/5	1.5	2.5	n/a
150/5	1.5	2.5	n/a

CT-MES-62/20 · 30/5A to 200/5A

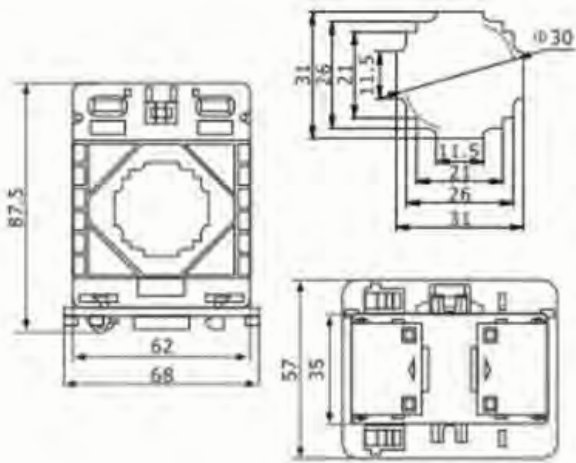


Rated current (A)	Rated output (VA)		
	Class 0.5	Class 1.0	Class 3.0
30/5	n/a	n/a	1.5
40/5	n/a	n/a	1.5
50/5	n/a	1.5	n/a
60/5	n/a	2.5	n/a
75/5	n/a	1.5	n/a
80/5	n/a	2.5	n/a
100/5	1.5	2.5	n/a
150/5	2.5	3.75	n/a
200/5	3.75	5	n/a

Ratings shown are for a 5A secondary, n/a means the ratio is not offered in that accuracy class. Contact SATEC for 1A secondary ratings. All dimensions in millimetres.

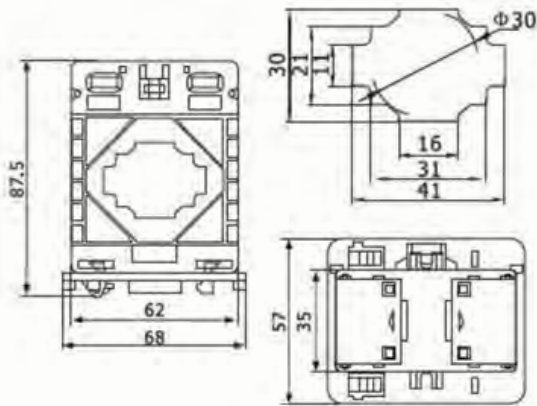
Specifications (continued): Ratings and Dimensions

CT-MES-62/30 · 30/5A to 200/5A



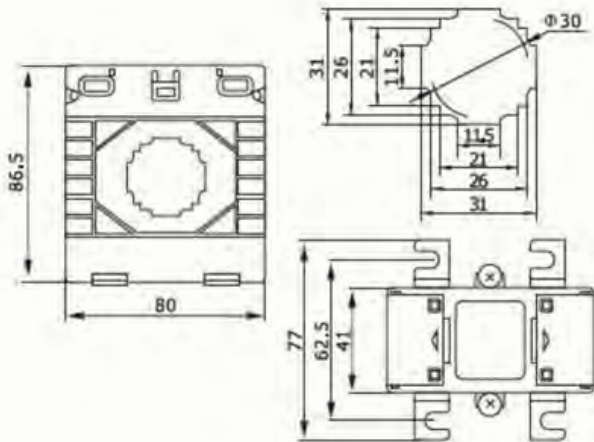
Rated current (A)	Rated output (VA)		
	Class 0.5	Class 1.0	Class 3.0
30/5	n/a	n/a	2.5
40/5	n/a	n/a	2.5
50/5	n/a	n/a	2.5
60/5	n/a	1.5	n/a
75/5	n/a	1.5	n/a
100/5	1.5	2.5	n/a
150/5	2.5	3.75	n/a
200/5	3.75	5	n/a

CT-MES-62/40 · 60/5A to 400/5A



Rated current (A)	Rated output (VA)		
	Class 0.5	Class 1.0	Class 3.0
60/5	n/a	1.5	n/a
75/5	n/a	1.5	n/a
100/5	n/a	1.5	n/a
150/5	n/a	2.5	n/a
200/5	2.5	3.75	n/a
250/5	2.5	3.75	n/a
300/5	3.75	5	n/a
400/5	5	10	n/a

CT-MES-80/30 · 30/5A to 200/5A

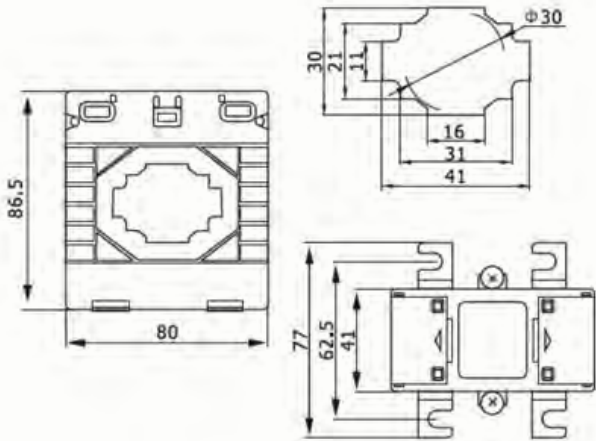


Rated current (A)	Rated output (VA)		
	Class 0.5	Class 1.0	Class 3.0
30/5	n/a	n/a	2.5
50/5	n/a	2.5	n/a
60/5	n/a	2.5	n/a
75/5	n/a	1.5	n/a
100/5	n/a	2.5	n/a
150/5	2.5	3.75	n/a
200/5	5	5	n/a

Ratings shown are for a 5A secondary. n/a means the ratio is not offered in that accuracy class. Contact SATEC for 1A secondary ratings. All dimensions in millimetres.

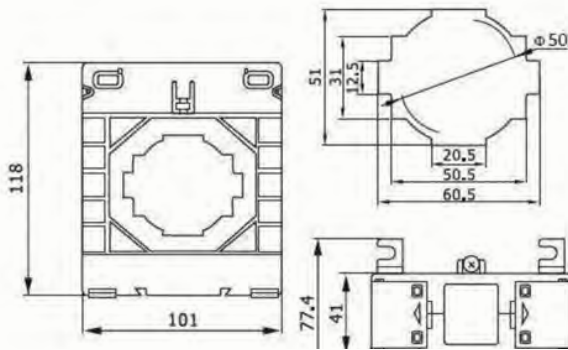
Specifications (continued): Ratings and Dimensions

CT-MES-80/40 · 100/5A to 500/5A



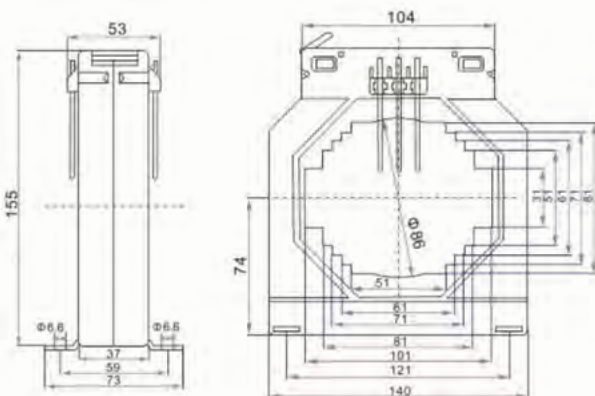
Rated current (A)	Rated output (VA)		
	Class 0.5	Class 1.0	Class 3.0
100/5	n/a	2.5	n/a
150/5	2.5	3.75	n/a
200/5	3.75	5	n/a
250/5	3.75	5	n/a
300/5	5	5	n/a
400/5	5	10	n/a
500/5	5	10	n/a

CT-MES-100/60 · 600/5A to 1200/5A



Rated current (A)	Rated output (VA)	
	Class 0.5	Class 1.0
600/5	10	15
800/5	10	15
1000/5	10	20
1200/5	15	20

CT-MES-140/100 · 800/5A to 3000/5A



Rated current (A)	Rated output (VA)	
	Class 0.5	Class 1.0
800/5	15	20
1000/5	15	20
1200/5	15	20
1500/5	15	20
1600/5	15	20
2000/5	15	25
2500/5	15	25
3000/5	15	25

Ratings shown are for a 5A secondary. n/a means the ratio is not offered in that accuracy class. Contact SATEC for 1A secondary ratings. All dimensions in millimetres.

Standards Compliance

Instrument Transformers

- IEC 61869-2: Additional requirements for current transformers
- AS 61869.2: Additional requirements for current transformers
- IEC 60044-1: Current transformers
- AS 60044.1: Current transformers

Testing and Certification

- NATA certification available on application
- Accuracy Class 0.5, 1.0 and 3.0 subject to rated burden

National Standards

- BS 7626: Current transformers
- VDE 0414: Instrument transformers

Construction

- Self-extinguishing Class V0 casing
- Sealable terminal covers

Ordering Information

MODEL	PRIMARY / SECONDARY	ACCURACY CLASS	RATED OUTPUT	OPTIONS
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Example: **CT-MES-62/30 · 100/5A · Class 0.5 · 1.5VA**

MODEL	
5/5A to 150/5A, integral primary bar	CT-MES-62/20B
30/5A to 200/5A, Ø22mm	CT-MES-62/20
30/5A to 200/5A, Ø30mm	CT-MES-62/30
60/5A to 400/5A, Ø30mm	CT-MES-62/40
30/5A to 200/5A, Ø30mm	CT-MES-80/30
100/5A to 500/5A, Ø30mm	CT-MES-80/40
600/5A to 1200/5A, Ø50mm	CT-MES-100/60
800/5A to 3000/5A, Ø86mm	CT-MES-140/100

PRIMARY / SECONDARY	
Primary current 5A to 3000A (see ratings tables)	e.g. 100
5A secondary	/5
1A secondary	/1

ACCURACY CLASS	
Class 0.5	0.5
Class 1.0	1.0
Class 3.0 (selected low ratios)	3.0

OPTIONS	
Rated output per ratings table	VA
NATA certification	On application
Mounting: DIN rail, panel or busbar	Specify



Place an order

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Document Revision History

Version	Date
TBV1.0	30 September 2026