

# Energy Meter with Modbus Connection

SE-MTR-3Y-400V-A

ACCESSORIES



## Energy Meter with Modbus Connection for SolarEdge Installations

- High accuracy meter readings for production/consumption monitoring
- Supports residential, commercial and utility-size installations
- Import/Export meter readings for export limitation functionality
- Supports RS485 120Ω line termination
- Small and easy to install - fits in standard electrical panels

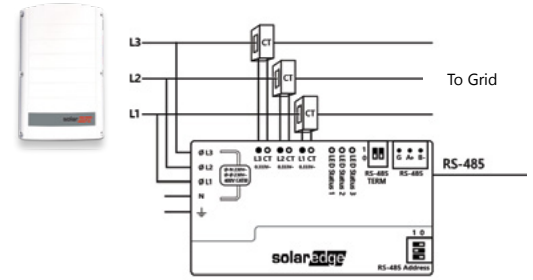
# / Energy Meter with Modbus Connection

## SE-MTR-3Y-400V-A

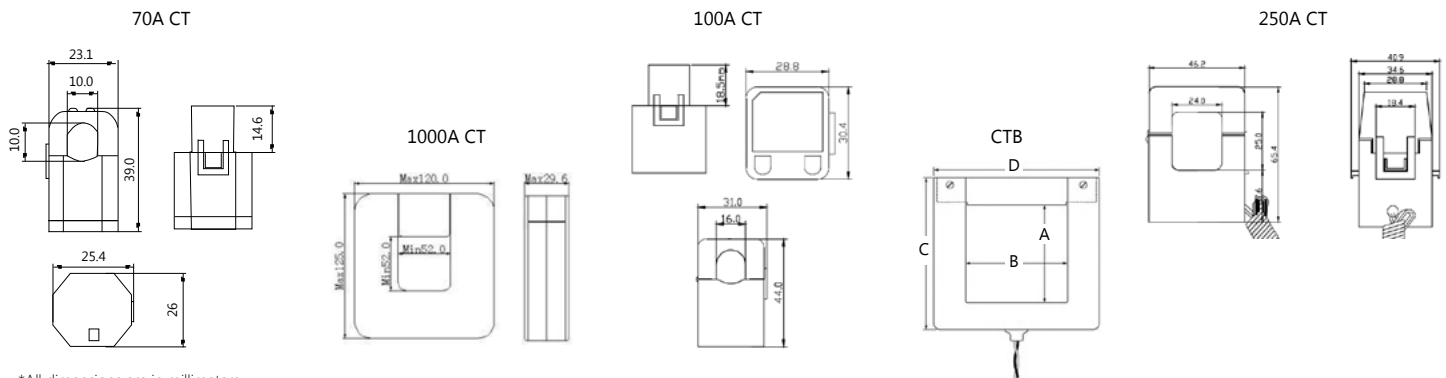
WHEN ORDERING A METER, ORDER CURRENT TRANSFORMERS AS WELL:

CURRENT TRANSFORMER MODEL <sup>(1)</sup>	RATED RMS CURRENT(A)	INTERNAL (A X B) / EXTERNAL (C X D)
SE-CTML-0350-070	70	10 x 10 mm / 25.4 x 39 mm
SECT-SPL-100A-A	100	16 x 16 mm / 44 x 31 mm
SECT-SPL-250A-A	250	24 x 25 mm / 46.2 x 65.4 mm
SECT-SPL-1000A-A	1000	52 x 52 mm / 120 x 125 mm
SE-CTB-4x4-1200	1200	102 x 102 mm / 158 x 168 mm
SE-CTB-4x4-2000	2000	102 x 102 mm / 158 x 168 mm
SE-CTB-4x4.5-3000	3000	114 x 102 mm / 171 x 168 mm

(1) One current transformer per phase; for other ratings contact SolarEdge  
 \* All CT twisted pair lead wire length are 2.4 meters.



### Current Transformer Dimensions



\*All dimensions are in millimeters

SE-MTR-3Y-400V-A		UNITS
<b>ELECTRICAL SERVICE</b>		
Operating Voltage Range	Line to Line	207 - 440 Vac
	Line to Neutral	108 - 305 Vac
Nominal Voltage Range	Line to Line	230 - 400 Vac
	Line to Neutral	120 to 277 Vac
AC Frequency	45 - 65	Hz
Grids Supported <sup>(2)</sup> - Single Phase ; Three Phase	L / N / PE ; L1 / L 2 / L3 / N / PE	
Power Consumption (max)	3	W
CT Inputs	333	mV
<b>COMMUNICATION</b>		
Supported Communication Interfaces	RS485 half-duplex, 3 wires (A, B, GND)	
Response Time <sup>(3)</sup>	≤200	ms
Default Device ID (Modbus)	2	
RS485 Line Termination	120	Ω
<b>ACCURACY (@25°C, PF: 1)<sup>(4)</sup></b>		
1% - 100% of Rated CT Current	±1.25	%
IEC Accuracy	IEC 62053-21 Class 1, IEC 62053-23 Class 2	
<b>STANDARD COMPLIANCE</b>		
Safety	IEC 61010-1, UL 61010-1, CAN/CSA-C22.2 No. 61010-1-04	
Immunity	EN 61326: 2000, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-5, EN 61000-4-6,	
Emissions	EN 55022 Class B	
<b>INSTALLATION SPECIFICATIONS</b>		
Dimensions (HxWxD)	75 x 138.6 x 35 / 2.95 x 5.45 x 1.37	mm / in
Weight	225 / 0.49	gr / lb
Operating Temperature Range	-40 to +85 / -40 to +185	°C / °F
Relative Humidity (non-condensing)	5% to 90% up to 40°C decreasing linearity to 50% RH at 55°C	
Protection Rating	IP20 - Suitable for indoor use	
Mounting Type	DIN Rail / Surface mount	
AC voltage Terminal Block	up to 12 / 2.5	AWG/mm <sup>2</sup>
Communication Terminal Block	24 / 0.2 to 14 / 2	AWG/mm <sup>2</sup>
Current Transformer Terminal Block	24 / 0.2 to 14 / 2	AWG/mm <sup>2</sup>

(2) PE (Protective Earth) connection is not required for meter operation

(3) For power limitation application. When meter is connected at grid connection point, and when RS485 is used for multiple inverters

(4) ±1.75% from 10% to 100% of rated current for SE-CTB CTs

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CE RoHS

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