



solaredge A-400V-3Y-MTR-SE Energy Meter with Modbus Connection Instructions

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solaredge A-400V-3Y-MTR-SE Energy Meter with Modbus Connection



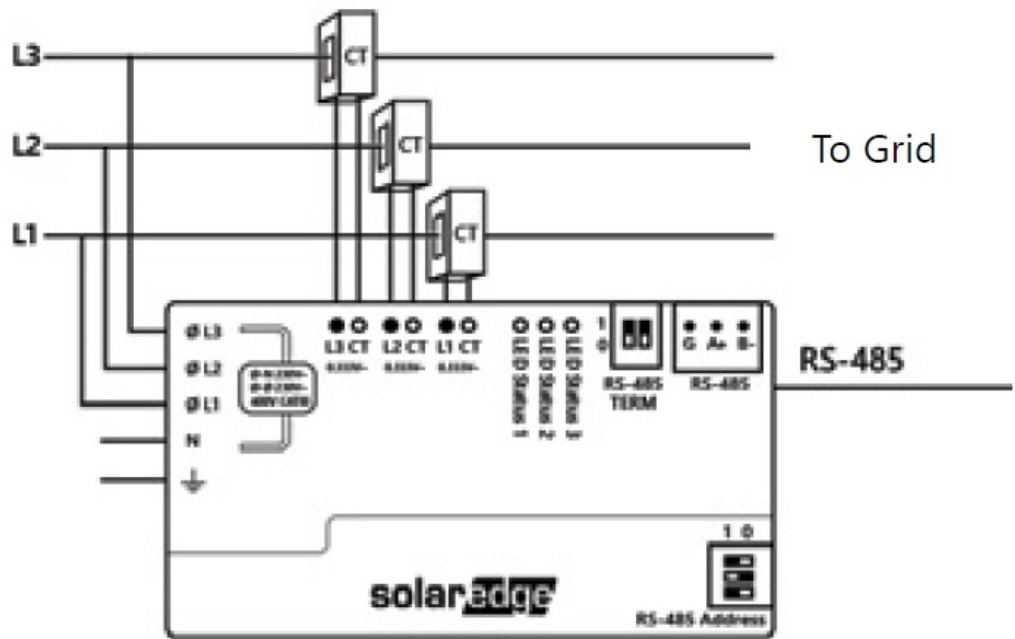
Energy Meter with Modbus Connection for SolarEdge Installations

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

Energy Meter with Modbus Connection

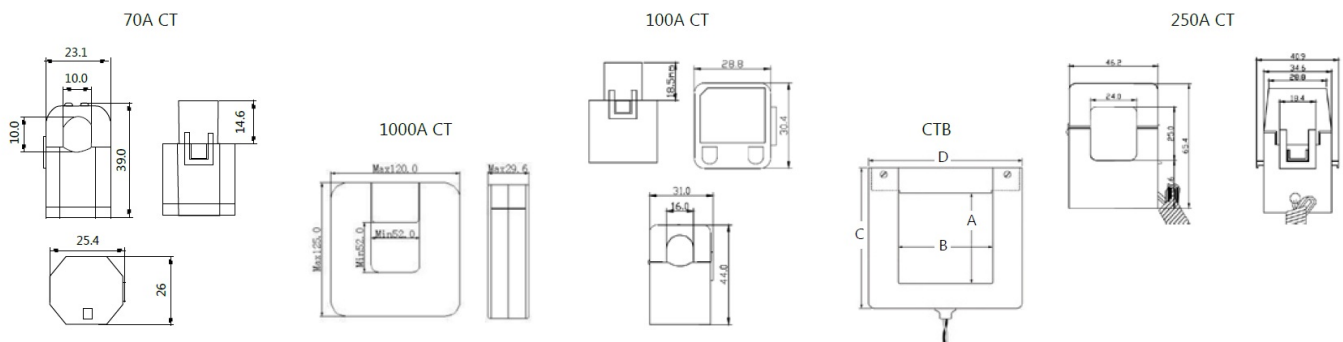
SE-MTR-3Y-400V-A

WHEN ORDERING A METER, ORDER CURRENT TRANSFORMERS AS WELL:



CURRENT TRANSFORMER MODEL(1)	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

Current Transformer Dimensions



SE-MTR-3Y-400V-A		UNITS	
ELECTRICAL SERVICE			
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(2) – Single Phase ; Three Phase		L / N / PE ; L1 / L 2 / L3 / N / PE	
Power Consumption (max)		3	W
CT Inputs		333	mV
COMMUNICATION			
Supported Communication Interfaces		RS485 half-duplex, 3 wires (A, B, GND)	
Response Time(3)		≤200	ms
Default Device ID (Modbus)		2	

RS485 Line Termination	120	Ω
ACCURACY (@25°C, PF: 1) ⁽⁴⁾		
1% – 100% of Rated CT Current	± 1.25	%
IEC Accuracy	IEC 62053-21 Class 1, IEC 62053-23 Class 2	
STANDARD COMPLIANCE		
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	
INSTALLATION SPECIFICATIONS		
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/ mm2
Communication Terminal Block	24 / 0.2 to 14 / 2	AWG/ mm2
Current Transformer Terminal Block	24 / 0.2 to 14 / 2	AWG/ mm2

- PE (Protective Earth) connection is not required for meter operation
- For power limitation application. When meter is connected at grid connection point, and when RS485 is used for multiple inverters
- $\pm 1.75\%$ from 10% to 100% of rated current for SE-CTB CTs

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Documents / Resources

	solaredge A-400V-3Y-MTR-SE Energy Meter with Modbus Connection [pdf] Instructions A-400V-3Y-MTR-SE Energy Meter with Modbus Connection, A-400V-3Y-MTR-SE, Energy Meter with Modbus Connection, Energy Meter, Meter
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