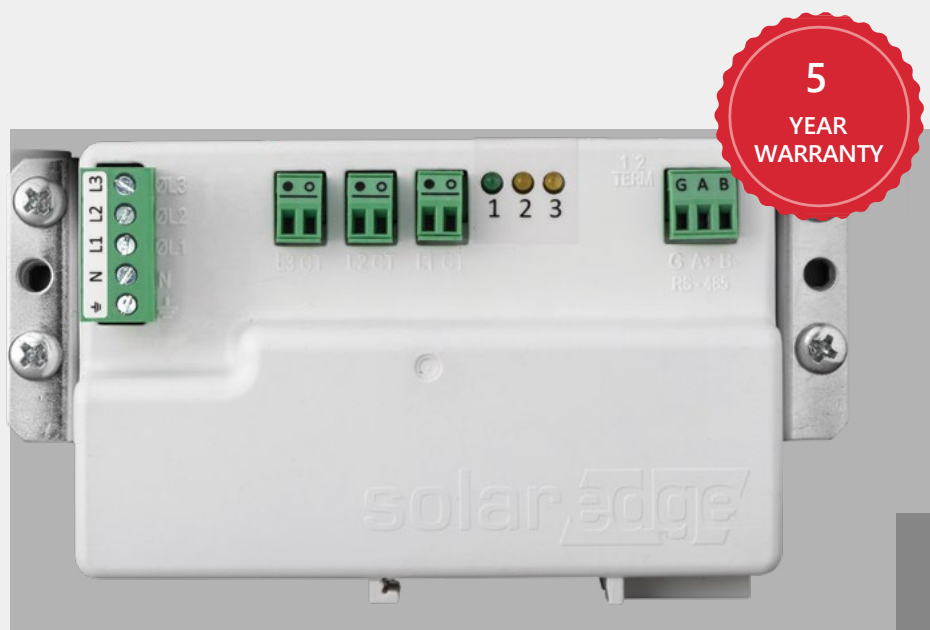


Energy Meter with Modbus Connection

SE-MTR-3Y-400V-A



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

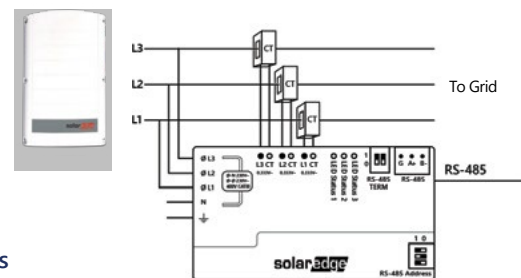
WHEN ORDERING A METER, ORDER CURRENT TRANSFORMERS AS WELL:

CURRENT TRANSFORMER MODEL ⁽¹⁾	RATED RMS CURRENT(A)	INTERNAL (A X B) / EXTERNAL (C X D)
SECT- SPL-100A- A	100	16 x 16 mm / 44 x 31 mm
SECT- SPL-250A- A	250A	24 x 25 mm / 46.2 x 65.4 mm
SECT- SPL-1000A- A	1000A	52 x 52 mm / 120 x 125 mm

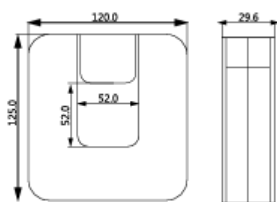
(1) One current transformer per phase; for other ratings contact SolarEdge

* All CT twisted pair lead wire length are 2.4 meters.

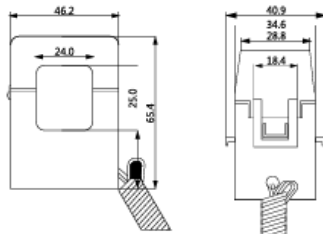
Current Transformer Dimensions



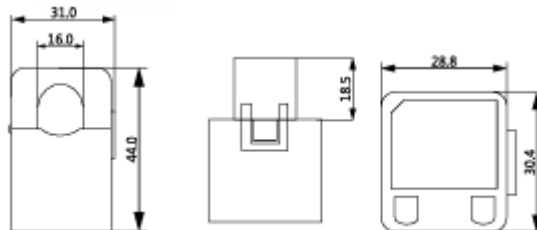
SECT- SPL-1000A- A



SECT- SPL-250A- A



SECT- SPL-100A- A



*All dimensions are in millimeters

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 ⁽¹⁾ - 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 ⁽²⁾		≤200	ms
Default Device ID (Modbus)		2	
RS485 Line Termination		120	Ω
ACCURACY (at 25°C, PF: 1)			
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

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

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

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CE RoHS

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