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
- 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
- **I** Supports RS485 120 Ω line termination

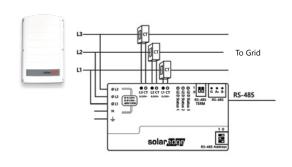


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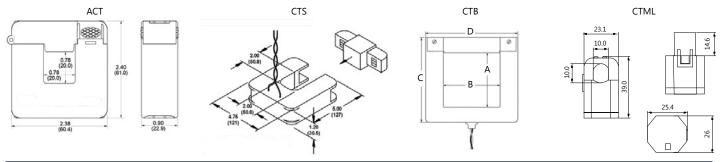
WHEN ORDERING A METER, ORDER CURRENT TRANSFORMERS AS WELL:

CURRENT TRANSFORMER MODEL ⁽¹⁾	RATED RMS CURRENT(A)	INTERNAL (A X B) / EXTERNAL (C X D)
SE-CTML-0350-070	70	10 x 10 / 25.4 x 39
SE-ACT-0750-50	50	
SE-ACT-0750-100	100	20 x 20 mm / 61 x 60.4 mm
SE-ACT-0750-250	250	
SE-CTS-2000-1000	1000	50.8 x 50.8 mm / 121 x 127 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



	SE-MTR-3Y-400V-A	UNITS
CE		
Line to Line	207 - 440	Vac
Line to Neutral	108 - 305	Vac
Line to Line	230 - 400	Vac
Line to Neutral	120 to 277	Vac
	45 - 65	
hase ; Three Phase	L/N/PE;L1/L2/L3/N/PE	
	3	W
	333	mV
Interfaces	RS485 half-duplex, 3 wires (A, B, GND)	
	≤200	ms
	2	
	120	Ω
C, PF: 1) ⁽⁴⁾		
1% - 100% of Rated CT Current ±1.0		%
	IEC 62053-21 Class 1, IEC 62053-23 Class 2	
LIANCE		1
	IEC 61010-1, UL 61010-1, CAN/CSA-C22.2 No. 61010-1-04	
	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,	
	EN 55022 Class B	
CIFICATIONS		
	75 x 138.6 x 35 / 2.95 x 5.45 x 1.37	
	225 / 0.49	gr / lb
nge	-40 to +85 / -40 to +185	
densing)	5% to 90% up to 40°C decreasing linearity to 50% RH at 55°C	
	IP20 - Suitable for indoor use	
	DIN Rail / Surface mount	
	up to 12 / 2.5	
unication Terminal Block 24 / 0.2 to 14 / 2		AWG/mm ²
al Block	24 / 0.2 to 14 / 2	AWG/mm ²
	Line to Neutral Line to Line Line to Neutral L	CE Line to Line 207 - 440 Line to Neutral 108 - 305 Line to Neutral 120 to 277 Line to Neutral 45 - 65 hase; Three Phase L / N / PE; L1 / L 2 / L3 / N / PE 3 333 Interfaces RS485 half-duplex, 3 wires (A, B, GND) ≤200 2 2 120 5, PF: 1) ⁽⁴⁾ 2 ent ±1.0

⁽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⁾ Using SE-ACTL-0750 CTs model

^{±1.75%} from 10% to 100% of rated current for SE-CTB CTs

^{±1.25%} from 10% to 100% of rated current for SE-CTS CTs

 $[\]pm 1.25\%$ from 1% to 100% of rated current for CTML CTs