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

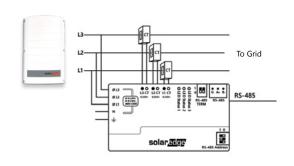


/ Energy Meter with Modbus Connection

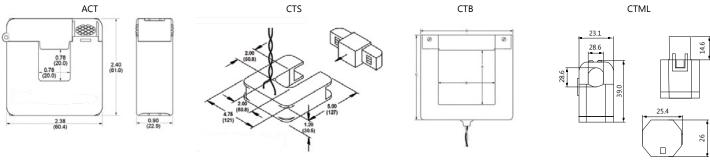
SE-MTR-3Y-400V-A

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 / 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-4x4-3000	3000	102 x 102 mm / 158 x 168 mm
SE-CTB-4x4-2000	2000	102 x 102 mm / 158 x 168 mm
SE-CTB-4x4.5-1200	1200	102 x 114 mm / 171 x 168 mm



Current Transformer Dimensions



	SE-MTR-3Y-400V-A		UNITS
ELECTRICAL SERVIC	Œ		
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/L2/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		±1.0	%
IEC Accuracy		IEC 62053-21 Class 1, IEC 62053-23 Class 2	
STANDARD COMPL	IANCE		
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 SPE	CIFICATIONS		
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	

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

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

⁽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 CT model

^{±1.5%} from 10% to 100% of rated current for CTB CTs

^{±1.25%} from 1% to 130% of rated current for CTML CTs