



solar edge SE-MTR240-NN-S-S1 Energy Meter with Modbus Connection Owner's Manual

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solar edge SE-MTR240-NN-S-S1 Energy Meter with Modbus Connection



Product Information

The Energy Meter with Modbus Connection is designed for residential installations in North America. It features a Type NEMA 3R enclosure for outdoor protection and provides high accuracy meter readings. The meter communicates over RS485 to provide monitoring data and is suitable for export limitation, consumption monitoring, and StorEdge™ applications. The product is backed by a 5-year warranty.

Product Usage Instructions

1. Ensure that the Energy Meter is properly installed in a suitable location with the provided NEMA Type 3R enclosure for outdoor protection.
2. Connect the Energy Meter to the supported inverter's electrical service by following the provided electrical specifications for AC input voltage, frequency, and max input current.
3. If using current transformers (CTs), order them separately and ensure they are correctly connected to the Energy Meter's L1 and L2 terminals.
4. If necessary, connect the Energy Meter to the monitoring system or data logger using the RS485 communication interface.
5. Ensure that the Energy Meter is powered and properly configured for export limitation, consumption monitoring, or StorEdge™ applications as required.
6. Refer to the product manual for further instructions on configuring and utilizing the Energy Meter's features.

FEATURE

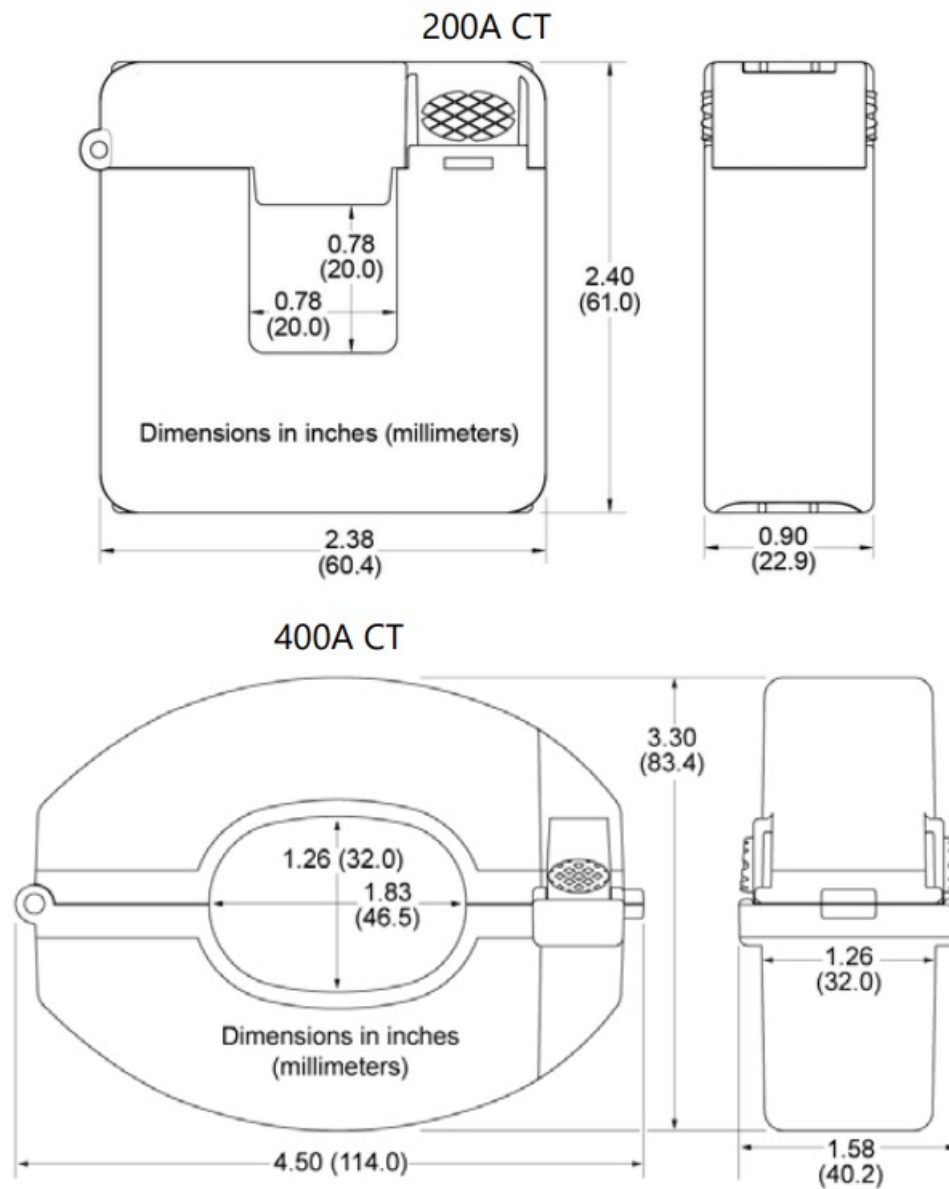
- Simple installations and connectivity
- Type NEMA 3R enclosure for outdoor protection
- Provides high accuracy meter readings
- Communicates over RS485 to provide monitoring data
- Suitable for export limitation, consumption monitoring and StorEdge™ applications

SPECIFICATION

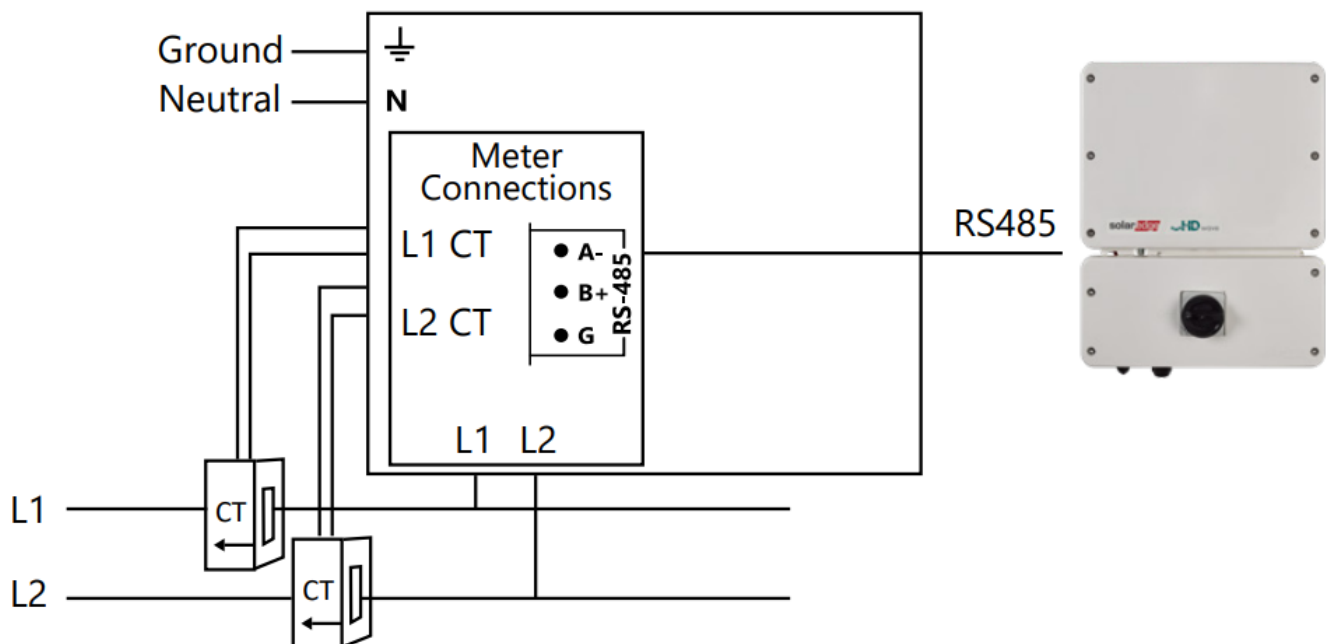
SUPPORTED INVERTERS E INVERTERS			SINGLE PHAS UNITS
ELECTRICAL SERVICE			
AC Input Voltage (Nominal)	240		Vac
AC Frequency (Nominal)	60		Hz
Max AC Input Current	100		mA
Connector Type	Terminal block – 22 to 12		AWG
Grids supported	L1 / L2 / N / PE L1 / L2 / PE		
Power Consumption (Nominal)	3		W
METER ACCURACY (@ 77°F / 25°C, PF:0.7- 1)			
1 – 100% of Rated Current CT	±1.0		%
CURRENT TRANSFORMERS(1)			
Nominal Input (at CT Rated Current)	CT1, CT2: 0.333		Vac RMS
Rated RMS current(2)	200	400	A
Dimensions (Internal / External)	0.8 x 0.8; 2.4 x 2.4 / 20 x 20; 61 x 61	1.26 x 1.83; 3.3 x 4.5 / 32 x 46.5; 83.4 x 114	in/mm
STANDARD COMPLIANCE			
Safety	UL 1741:2010 Ed.2(Supplement SA)+R: 07 Sep 2016		
Emmissions	FCC 47 CFR Part 15 Subpart B		
ENVIRONMENTAL			
Operating Temperatures	-40 to +140 / -40 to +60		°F / °C
Relative Humidity (noncondensing)	5-90		%
Enclosure type	High impact, ABS and/or ABS/PC plastic UL 94V-0, IEC FV-0		
Protection Rating	NEMA Type 3R		
INSTALLATION SPECIFICATIONS			
Dimensions (HxWxD)	8.1 x 12.4 x 4.6 / 206.6 x 316 x 117.5		in / mm
Weight	3.9 / 1.8		lb / kg
Conduit Entry Diameters	0.75 or 1 / 19 or 25		in
Mounting Type	Bracket mount		

DIMENSION

Current Transformer Dimensions



Connecting the Energy Meter




* Current Transformers (CTs) should be ordered separately: SEACT0750-200NA-20 (200A); SEACT1250-400NA-

20 (400A). Each comes in boxes of 20.

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Documents / Resources

	<p>solar edge SE-MTR240-NN-S-S1 Energy Meter with Modbus Connection [pdf] Owner's Manual</p> <p>SE-MTR240-NN-S-S1 Energy Meter with Modbus Connection, SE-MTR240-NN-S-S1, Energy Meter with Modbus Connection, Meter with Modbus Connection, with Modbus Connection, Mod bus Connection</p>
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