

# Energy Meter

with cellular connection, for North America

SE-MTR240-C-R05-S2



METERING

## Provides consumption monitoring prior to inverter installation:

- Supports single phase inverter installations, including StorEdge inverters
- Future-proof solution — once an inverter is added, full metering and monitoring capabilities are supported
- Fast and easy installation
- 5-year data plan included
- No need for internet infrastructure on site
- Provides high accuracy meter readings
- Type NEMA 3R enclosure for outdoor protection

# / Energy Meter

## with cellular connection, for North America

### SE-MTR240-C-R05-S2

Supported inverters		Single Phase Inverters	
<b>ELECTRICAL SERVICE</b>			
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)	4		W
<b>METER ACCURACY (@ 77°F / 25°C, PF:0.7- 1)</b>			
1 - 100% of Rated Current CT	± 1.0		%
<b>CURRENT TRANSFORMER INPUTS<sup>(1)</sup></b>			
Supported CTs	200, 400		A
Nominal Input (at CT Rated Current)	CT1, CT2: 0.333		Vac RMS
<b>FLEXIBLE CURRENT TRANSFORMER INPUTS<sup>(2)</sup></b>			
Supported Flexible CTs	250		A
One Flexible CT <sup>(3)</sup>	CT1: 0.333		Vac RMS
Two Flexible CTs	CT1, CT2: 0.333		Vac RMS
<b>COMMUNICATION</b>			
Supported Communication Interfaces	Cellular, RS485		
Cellular communication	2G		
Response Time	≤2		sec
Number of Supported Inverters (RS485)	1-3 <sup>(4)</sup>		
<b>DATA PLAN</b>		<b>StorEdge Single Phase Inverter</b>	<b>Single Phase Inverter</b>
Supported Systems	1 inverter, 45 optimizers, 1 export/import meter, 1 battery		1 inverter, 70 optimizers, 1 export/import meter
Monitoring	Data sampled every 5 minutes and sent to SolarEdge server		
Number of Monitored Inverters	Up to 1		
Plan Duration	5 year prepaid plan		
<b>RF PERFORMANCE</b>			
Operating Frequency Min.-Max. CDMA 800	Modem transmit: 824-849, Modem receive: 869-894		MHz
Operating Frequency Min.-Max. CDMA 1900	Modem transmit: 1850 -1910, Modem receive: 1930 -1990		MHz
Antenna Connector	RP-SMA		
Maximum transmit power	24		dBm
Receiver Input Sensitivity (Forward Link RF level @ FER < 0.5%)	Typ. -107, Min. -106		dBm
<b>STANDARD COMPLIANCE</b>			
Safety	UL 1741:2010 Ed.2(Supplement SA)+R: 07 Sep 2016		
EMC	FCC Parts 15, 22, 24 class B , Industry Canada (IC): ICES-003, RSS-102		
<b>ENVIRONMENTAL</b>			
Operating Temperature	-4 to +140 / -25 to +60		°F / °C
Protection Rating	NEMA 3R		
<b>INSTALLATION SPECIFICATIONS</b>			
Dimensions (HxWxD)	8.1 x 12.4 x 4.6 / 206.6 x 316 x 117.5		in /mm
Weight	3.9 / 1.8		lbs / kg
Conduit Entry Diameters	0.75 , 1.00		in
Mounting Type	Wall/pole mount (brackets supplied)		

<sup>(1)</sup> Current Transformers (CTs) should be ordered separately: SEACT0750-200NA-20 (200A) or SEACT1250-400NA-20 (400A) 20 per box

<sup>(2)</sup> Flexible CT should be ordered separately: SECT-FLX-250A-05 (5 per box) , including its conditioning circuit

<sup>(3)</sup> For the Eight shape scheme refer to the products's user manual.

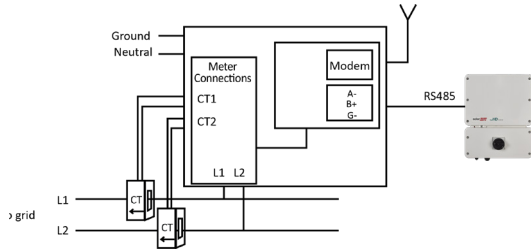
<sup>(4)</sup> For installation of more than one inverter, refer to the products's user manual.

# / Energy Meter

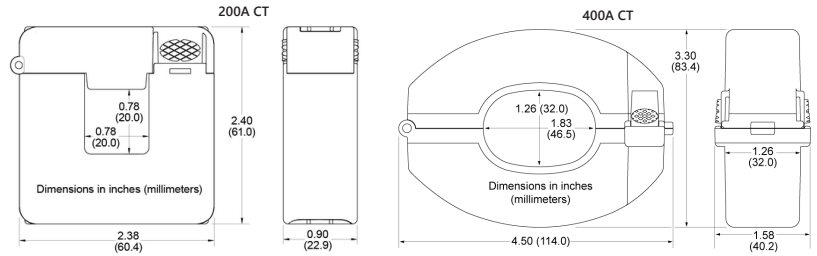
with cellular connection, for North America

SE-MTR240-C-R05-S2

## Connecting the Energy Meter



## Split Core Current Transformer Dimensions



## Flexible Current Transformer

