

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

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Supported inverters		Single Phase Inverters	
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)	4		W
METER ACCURACY (@ 77°F / 25°C, PF:0.7- 1)			
1 - 100% of Rated Current CT	± 1.0		%
CURRENT TRANSFORMER INPUTS⁽¹⁾			
Supported CTs	200, 400		A
Nominal Input (at CT Rated Current)	CT1, CT2: 0.333		Vac RMS
FLEXIBLE CURRENT TRANSFORMER INPUTS⁽²⁾			
Supported Flexible CTs	250		A
One Flexible CT ⁽³⁾	CT1: 0.333		Vac RMS
Two Flexible CTs	CT1, CT2: 0.333		Vac RMS
COMMUNICATION			
Supported Communication Interfaces	Cellular, RS485		
Cellular communication	2G		
Response Time	≤2		sec
Number of Supported Inverters (RS485)	1-3 ⁽⁴⁾		
DATA PLAN			
	StorEdge Single Phase Inverter	Single Phase Inverter	
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		
RF PERFORMANCE			
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
STANDARD COMPLIANCE			
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		
ENVIRONMENTAL			
Operating Temperature	-4 to +140 / -25 to +60		°F / °C
Protection Rating	NEMA 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		lbs / kg
Conduit Entry Diameters	0.75 , 1.00		in
Mounting Type	Wall/pole mount (brackets supplied)		

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

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

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

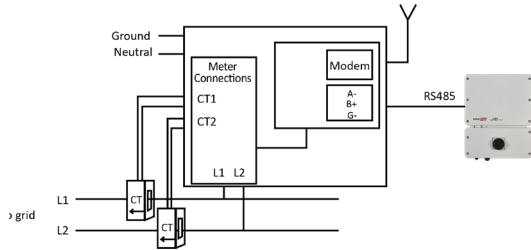
⁽⁴⁾ For installation of more than one inverter, refer to the products's user manual.

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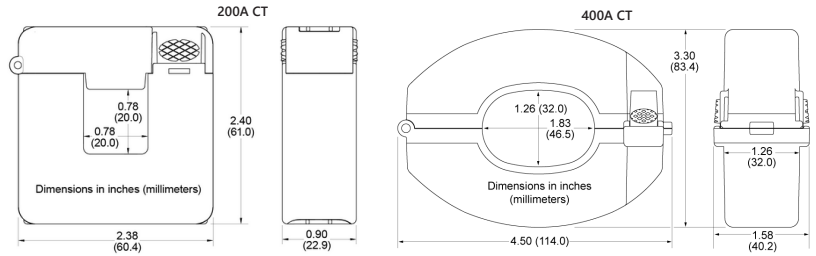
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Connecting the Energy Meter



Split Core Current Transformer Dimensions



Flexible Current Transformer

