

Revenue Grade Energy Meter with Modbus Connection for 208V Grid for North America

SE-RGMTR-3D-208V-A

SE-RGMTR-3Y-208V-A



Revenue Grade Energy Meter for Commercial Installations

- High accuracy revenue grade meter readings for production monitoring
- Small and easy to install - fits in standard electrical panel
- Supports commercial and utility-size installations
- Supports RS485 120Ω line termination
- Communicates over RS485 to provide monitoring data

/ Revenue Grade Energy Meter with Modbus Connection for 208V Grid for North America

SE-RGMTR-3D-208V-A, SE-RGMTR-3Y-208V-A

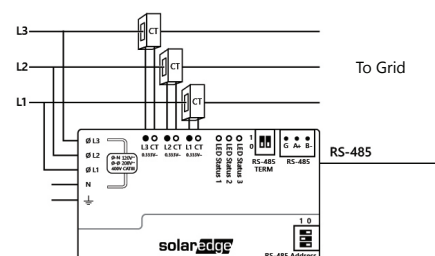
WHEN ORDERING A METER, ORDER CURRENT TRANSFORMERS AS WELL⁽¹⁾:

CURRENT TRANSFORMER MODELS ⁽²⁾	CLASS	RATED RMS CURRENT	DIMENSIONS (INTERNAL/ EXTERNAL)
SEACTL-1250-150-C3	0.3	150 A	1.83 x 1.26 in. / 4.50 x 3.30 in.
SEACTL-1250-300-C3	0.3	300 A / 600 A ⁽³⁾	

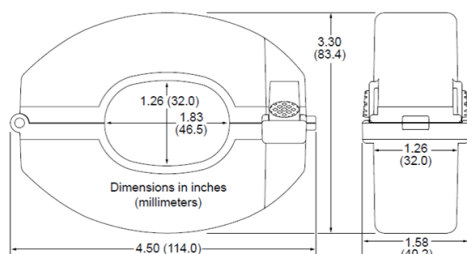
⁽¹⁾ Current Transformers should be ordered separately

⁽²⁾ One current transformer per phase; Sold in kits of 3 CTs. For other ratings contact SolarEdge

⁽³⁾ 600 A is achieved by connecting two SEACTL-1250-300-C3 in parallel



Current Transformer Dimensions



		SE-RGMTR-3D-208V-A	SE-RGMTR-3Y-208V-A	UNITS
ELECTRICAL SERVICE				
Nominal Voltage Range	Line to Line	202-240	208-240	Vac
	Line to Neutral		120-277	Vac
Operating Voltage Range	Line to Line	182-264	187-264	Vac
	Line to Neutral		108-305	Vac
Grids ⁽⁴⁾		3 Phase 4 Wire Wye	3 Phase 3 Wire Delta	
AC Frequency		55-65 ⁽⁵⁾		Hz
Accuracy (@ 77°F/ 25°C, PF: 0.7-1) ⁽⁶⁾		ANSI C12.20 Edition 2010 (class 0.5 system)		
Power Consumption		1 - 1.5 (Typical) 3 (Max)		W
COMMUNICATION				
Supported Communication Interfaces		RS485 half-duplex, 3 wires (A, B, GND)		
Response Time		≤1		sec
Default Device ID (Modbus)		1		
STANDARD COMPLIANCE				
Safety		UL 61010-1; CAN/CSA-C22.2 No. 61010-1-04, IEC 61010-1		
Immunity		EN 61326: 2002; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN61000-4-6; EN 61000-4-11		
Emissions		FCC Part 15, Class B; EN 55022: 1994, Class B		
INSTALLATION SPECIFICATIONS				
Dimensions (HxWxD)		4.40 x 1.38 x 2.95		in
Weight		0.45		lb
Operating Temperature Range ⁽⁷⁾		-40 to +185		°F
Relative Humidity (noncondensing)		5% to 90% up to 104°F decreasing linearity to 50% RH at 131°F		%
Protection Rating		IP20 - Suitable for indoor use IP65 - Suitable for outdoor use when mounted inside an electrical enclosure that is rated NEMA 3R or 4		
Mounting Type		DIN Rail		

⁽⁴⁾ PE (Protective Earth) connection is not required for meter operation

⁽⁵⁾ When used for RGM C12.20 application. 45 - 65 Hz for all other applications.

⁽⁶⁾ Using Opt C0.3 CT models available from CCS

⁽⁷⁾ Current Transformers operating Temperature Range: -30 to +75°C / -22 to +167°F