

Energy Meter Kit for Busbar Current Management For North America

FLD-MTR-3PC05-PIE-CT



Energy Meter with Current Transformers for Busbar Current Management

- Kit includes a SolarEdge energy meter and two SolarEdge slim current transformers
- High accuracy meter readings for production / consumption monitoring
- Export / Import meter readings for export limitation functionality
- Small and easy to install - fits in standard electrical panels Supports RS485 120 Ω line termination
- Communicates over RS485 to provide monitoring data
- CT loss detection support

/ Energy Meter with Modbus Connection

For North America

SE-RGMTR-1D-240C-C

		Units
ELECTRICAL SPECIFICATIONS		
Nominal Voltage Range – Line to Line	L1/L2: L-N 120 L3: L-L 240	Vac
Operating Voltage Range – Line to Line	216 – 264	Vac
Grids	Split phase	
AC Frequency	45 – 65	Hz
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	
ACCURACY (@ 77°F/ 25°C, PF: 0.7-1)		
1% - 100% of Rated CT Current	L1/L2: ±1 L3: ±0.5 (RGM) ⁽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 (H x W x D)	4.40 x 1.38 x 2.95 / 111.76 x 35.05 x 74.93	inch/mm
Weight	0.45 / 204.12	lb/gr
Operating Temperature Range	-40 to +185 / -40 to +85	°F / °C
Relative Humidity (non-condensing)	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	
AC voltage Terminal Block	Up to 12 / 2.5	AWG/mm ²
Communication Terminal Block	24 / 0.2 to 14 / 2	AWG/mm ²
Current Transformer Terminal Block	24 / 0.2 to 14 / 2	AWG/mm ²

(1) Compliant with ANSI C12.20-2015 and ANSI C12.1-2014, using a pre-installed current transformer (ECM-IN-CTL16).

SolarEdge Slim Current Transformer

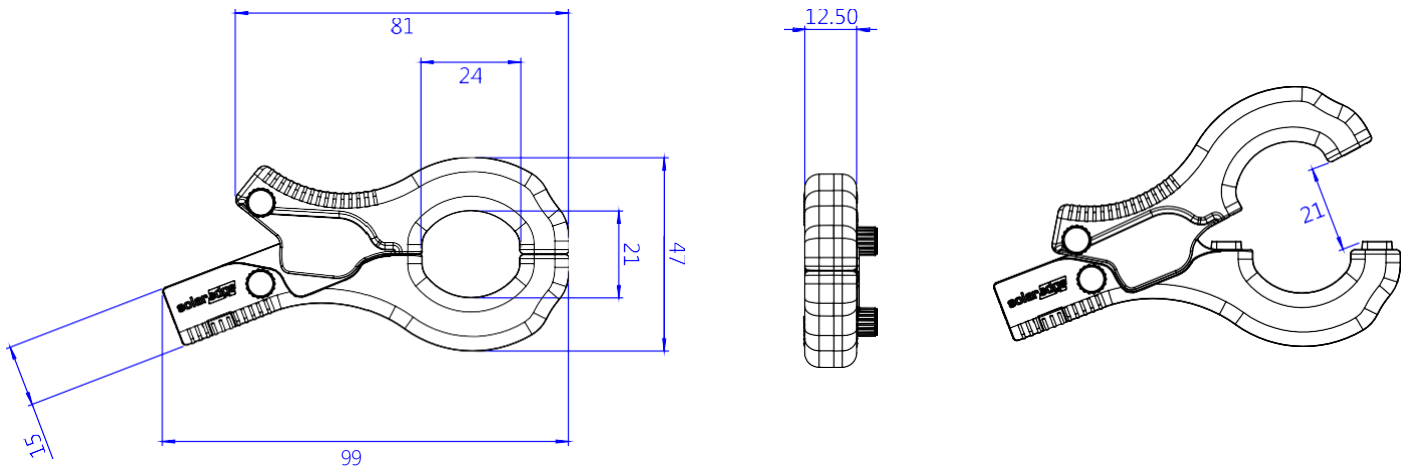
For North America

SECT-SPL-225A-T-20

		Units
ELECTRICAL SPECIFICATION		
Accuracy (1% - 100% of rated current)	±1	%
CT Phase Angle (10% - 100% of rated current)	< ±2.0	Degrees
Nominal Line Frequency	60 / 50	Hz
Current Rating	225 (@ 600 Vac)	A
Output Voltage	0 – 333	mVac
Overvoltage Category	CAT III 600V	Vac
Maximum Primary Conductor Gauge	300	kcmil
Maximum Continuous Amps	300	A
MECHANICAL		
Type	Split core, clamp design	
Dimensions: Overall (H x W x L)	1.85 x 0.49 x 4.05 / 47 x 12.5 x 99	
Average Window Diameter	0.885 / 22.6	
Lead Wire	Type	Twisted pair
	Length	17 / 5.2
	Gauge	18 / 20 ⁽¹⁾
Material	Polycarbonate	
Weight	7.5 / 213	
ENVIRONMENTAL SPECIFICATIONS		
Operating Temperature Range	-40 to 140 / -40 to 60	
Operating Humidity	5% to 90% relative humidity	
IP Rating	30 (NEMA 1)	
STANDARD COMPLIANCE		
Safety for US/CAN	UL 2808 (XOBA) listed, meets 2017 NEC code requirements for field installation	
RoHS	Compliant	

(1) 18 AWG or 20 AWG can be used interchangeably.

MECHANICAL DRAWINGS



All dimensions are in mm.