Inline Energy Meter



ACCESSORIES

Grow your revenues with an easily installed metering solution that fits comfortably into standard electrical DIN-rail cabinets

- Performs export/import, production and consumption energy readings with 1% accuracy
- Includes integrated current transformers for faster installations, reduced labor costs and simplified logistics
- Easier installations using SolarEdge Energy Net to communicate wirelessly with the inverter (RS485 connectivity is optional)
- Supports export/import limitation and SolarEdge Smart Energy applications

- Integrates smoothly and easily with SolarEdge Smart Energy solutions
- Enables direct connection of up to 65A per phase, for single and three phase grid connections
- Quick setup with automatic meter detection by the SolarEdge inverter
- Intuitive meter configuration and visibility to meter status using the SetApp mobile app



/ Inline Energy Meter

Part Number		MTR-240-3PC1-D-A-MW	MTR-240-1PC1-DW-MW	UNITS
Model Number		MTR EU3	MTR EU1	- UNITS
ELECTRICAL SERVICE		<u>'</u>		
Nominal Voltage		3 x 230/400	1 x 230	Vac
Voltage Range	Line to Line	320 - 460	-	Vac
	Line to Neutral	184 -	184 - 264.5	
Supported Grids		L1 / L2 / L3 / N (WYE)	L/N	
	SolarEdge Energy Net	< 2.0 < 1.8		W
Power Consumption (max)	Wireless Connection			
	RS485 Wired Connection			
AC Frequency		45 - 65		Hz
Maximum Current (Imax)		65		А
Transitional Current (Itr)		0.5		А
Starting Current (Ist)		20		mA
Minimum Current (Imin)		0.25		А
Reference Current (Iref)				А
Active Energy Accuracy		EN54070 IEC 62053		
Active Energy Accuracy Error	ltr ≤ I < Imax	IEC 62053-21 Class 1 1		
	lmin ≤ l < ltr	1.		%
Reactive Energy Accuracy	<u>'</u>		I.3 IEC 62053-23 Class 2	
Reactive Energy Accuracy Error	ltr ≤ l < lmax	2		
	lmin ≤ l < ltr		.5	%
Over-voltage			II 600	Vac
RS485 COMMUNICAT	ION	2000		
RS485 Terminal Cross Section		0.2 - 2		mm²
Interface		RS485 half duplex, 3 wires (A, B, GND)		
Protocol		MODBUS RTU		
Power Register Update Resolution		<200		ms
All Other Registers		< 4		sec
RS485 Line Termination		120 (selectable)		Ω
WIRELESS COMMUNI	CATION ⁽²⁾	1		1
Frequencies		863 - 876 (band 868)		MHz
		902 - 930 (band 915) 14 (with internal antenna)		
Transmit Power EIRP		16 (with external antenna)		dBm
Transmit Power (Max)	14		4	dBm
lodulation		OQPSK		
Internal Antenna Gain		0		dBi
External Antenna ⁽³⁾ Gain		2		dBi
Antenna Connector		SMA-RP		
External Antenna Mounting		Wall mount with bracket		
PULSE DISPLAY				l
Pulse Frequency		1000		imp / kWh
Pulse Length		5 (min), 80 (max)		ms
INSTALLATION/MECH	ANICAL			I
Display	-	8 di	gits	
Protection Rating (Indoor)		IP51		
Mounting Support		DIN rail		
Weight		320		g
Material		PC Lexan 503R		2
Material		PC Lexa	an 503K	
Material Dimensions (W x H x D)		PC Lexa 72 x 9		mm

⁽¹⁾ EN54070 Class B, when AC inputs are connected to the upper terminal blocks. EN54070 Class A, when AC inputs are connected to the lower terminal blocks. EN54070 Class A, when AC inputs are connected to the lower terminal blocks. EN54070 Class B, when AC inputs are connected to the lower terminal blocks. EN54070 Class B, when AC inputs are connected to the lower terminal blocks. EN54070 Class B, when AC inputs are connected to the lower terminal blocks. EN54070 Class B, when AC inputs are connected to the lower terminal blocks. EN54070 Class B, when AC inputs are connected to the lower terminal blocks. EN54070 Class B, when AC inputs are connected to the lower terminal blocks. EN54070 Class B, when AC inputs are connected to the lower terminal blocks.

⁽²⁾ SolarEdge Energy Net wireless communication requires inverter support

⁽³⁾ External antenna kit should be purchased separately (PN: SE-ANT-ENET-HB-01)

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Model Number	MTR EU3	MTR EU1	UNITS
ENVIRONMENTAL	•		'
Operating Temperature		-40 to +70 Suitable for outdoor installations	
Storage Temperature	-4	-40 to +85	
Relative Humidity (non-condensing)		75 (yearly average) 95 (30 days/year)	
Installation Altitude		< 2000	
Pollution Degree		2	
STANDARD COMPLIANCE			
Safety	UL 61010-1; CAN/CSA-C22	UL 61010-1; CAN/CSA-C22.2 No. 61010-1-04; IEC 61010-1	
Immunity	EN 61000-4-8; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11		
Emissions	FCC Part 15, Class B; EN 55032 Class B, EN 61000-3-2,EN 61000-3-3		
Wireless	IEC EN	IEC EN 300 220	

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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