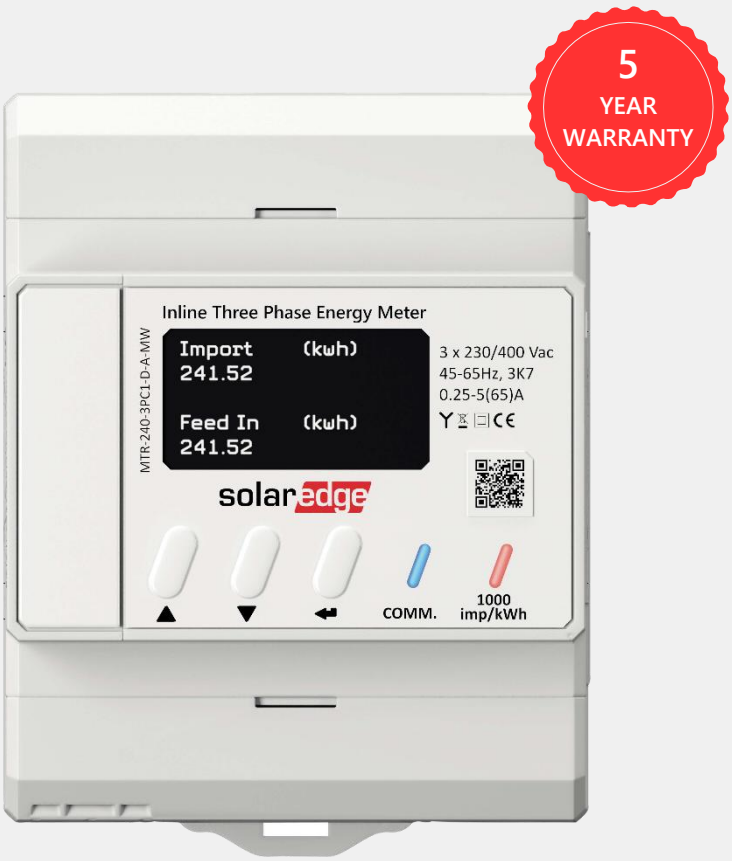
SolarEdge Home Inline Meter

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 Home Network 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 100 A / 65 A 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 SolarEdge Go mobile app

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Part Number Model Number	MTR-240-3PC1-D-A-MW / MTR-240-3PC1-D-A-MWA[1] MTR-EU3	MTR-240-1PC1-DW-MW / MTR-240-1PC1-DW-MWA[1] MTR-EU1	MTR-240-1PC1-D-A-MW MTR-EU2	UNITS
ELECTRICAL SERVICE				
Nominal Voltage	3 x 230 / 400	1 x 230		Vac
Voltage Range (Line to Line)	320 – 460	–		Vac
Voltage Range (Line to Neutral)	184 – 264.5			
Supported Grids	L1 / L2 / L3 / N (WYE)	L / N		
Maximum Power Consumption (SolarEdge Home Network or Wireless Connection)	< 2.0			W
Maximum Power Consumption (RS485 Wired Connection)	< 1.8			
AC Frequency	45 – 65			Hz
Maximum Current (Imax)	65		100	A
Transitional Current (Itr)	0.5		2	A
Starting Current (Ist)	20		50	mA
Minimum Current (Imin)	0.25		1	A
Reference Current (Iref)	5		20	A
Active Energy Accuracy	EN 54070 Class B[2]; IEC 62053-21 Class 1			
Active Energy Accuracy Error (Itr ≤ I < Imax)	1			%
Active Energy Accuracy Error (Imin ≤ I < Itr)	1.5			
Reactive Energy Accuracy	IEC 62053-23 Class 2			
Reactive Energy Accuracy Error (Itr ≤ I < Imax)	2			%
Reactive Energy Accuracy Error (Imin ≤ I < Itr)	2.5			
Over-voltage	CAT III 600			Vac
Compatible SolarEdge Inverters	Residential inverters with SolarEdge Go configuration, including: SolarEdge Home Genesis Inverters (Australia only), SolarEdge Home Hub Inverters, SolarEdge Home Wave Inverters, SolarEdge Nexis Inverters[3], SolarEdge Short String Inverters, SolarEdge Three Phase Inverters (SE16K and SE17K)			
RS485 COMMUNICATION				
RS485 Terminal Cross Section	0.2 – 2			mm^2
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 COMMUNICATION[4]				
Operating Frequency Range	863 – 870 (EU) 916 – 924 (AUS)			MHz
Modulation	OQPSK			
Antenna Connector	SMA-RP			
External Antenna Mounting[5]	Wall mount with bracket			
EIRP with Antenna	14 (EU) 20 (AUS)			dBm
PULSE DISPLAY				
Pulse Frequency	1000			imp / kWh
Pulse Length	5 (min), 80 (max)			ms

(1) Supported from inverter software version 4.14.xx and higher.
(2) 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.
(3) Requires firmware version 1.0.105 or higher. The meter must be connected through a wired interface.
(4) SolarEdge Home Network wireless communication requires inverter support. For SolarEdge Nexis Inverters, wireless communication will be supported in a future release.
(5) Part numbers MTR-240-3PC1-D-A-MWA and MTR-240-1PC1-DW-MWA (for Australia) include the external antenna kit. For all other part numbers, the external antenna kit (PN: SE-ANT-ENET-HB-01) must be purchased separately.

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INSTALLATION/MECHANICAL				
Display	8 digits		–	
Protection Rating (Indoor)	IP51			
Mounting Support	DIN rail			
Weight	320		190	g
Material	PC Lexan 503R			
Dimensions (W x H x D)	72 x 90 x 58		36 x 90 x 58	mm
AC Terminal Cross Section Area	1.5 – 25			mm^2
ENVIRONMENTAL				
Operating Temperature	-40 to +70 Suitable for outdoor installations			°C
Storage Temperature	-40 to +85			°C
Relative Humidity (non-condensing)	75 (yearly average) 95 (30 days/year)			%
Installation Altitude	< 2000			m
Pollution Degree	2			
STANDARD COMPLIANCE				
Safety	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			

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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