Inline Energy Meter - External SolarEdge Energy Net Antenna Installation Guide

Introduction

The following guide provides installation instructions for the External SolarEdge Energy Net Antenna of the Inline Energy Meter.

Scan for Inline Energy Meter Quick Installation Guide

Scan for Inline Energy Meter complete Installation Guide

Kit Contents

- External SolarEdge Energy Net Antenna with an attachment clip and 1.8 meter cable
- L-shaped Mounting Bracket
- Plastic gland and internal nut
- Three cable ties
- This guide

Before you Begin

WARNING!

HAZARD OF ELECTRIC SHOCK. Disconnect power to the electrical cabinet where the meter is installed. Do not proceed beyond this warning note until local safety conditions are fully understood and met.

- Locate a suitable location to install the Mounting Bracket of the External SolarEdge Energy Net Antenna. The bracket must enable vertical installation of the antenna outside of the electrical cabinet. Make sure to maintain a radial clearance of at least 2.7" / 7 cm from any metal surfaces.
- For routing the antenna cable out of the cabinet, drill a hole in the enclosure (if permitted), and install the provided gland.

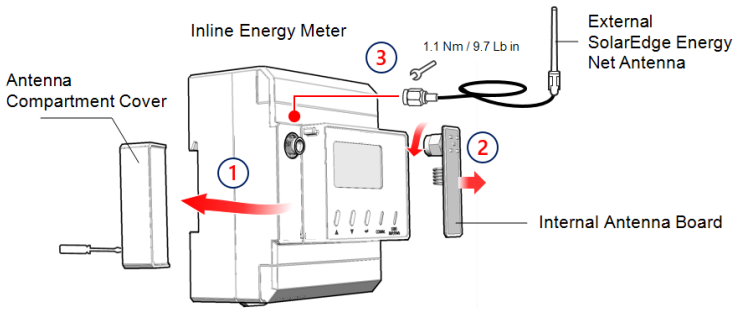
CAUTION!

When drilling holes to the cabinet, avoid damage to the internal parts by following the local safety regulations. Drilling holes can be avoided by using existing holes and unused conduits.

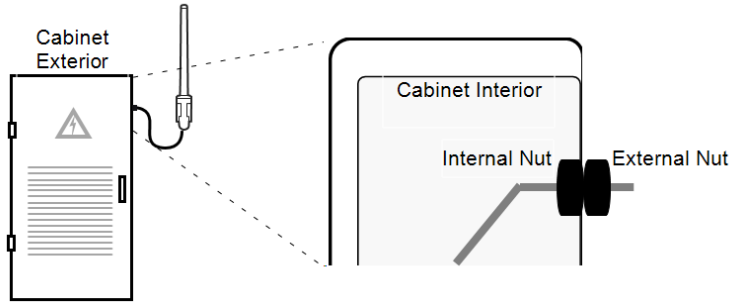
Installing the Antenna

→ To install and connect the antenna:

1. Remove the Antenna Compartment Cover from the Inline Energy Meter.



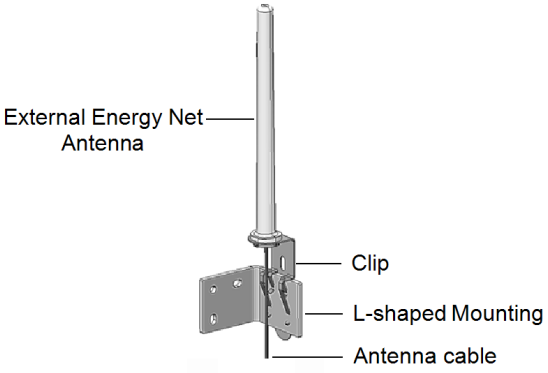
2. Remove the Internal Antenna Board.
3. Remove the gland's external nut and rubber seal from the gland. Run the antenna cable through the gland's external nut and rubber seal, into the Cabinet and reconnect the gland's external nut.
4. Fasten the gland to the cabinet using the internal nut using a torque of 1.5-2.5 Nm / 13.3-22.1 inch-pound.



5. Use the provided cable ties to route the antenna cable towards the meter inside the cabinet.
6. Connect the antenna cable to the meter and tighten the connector using a torque of 1.1 Nm / 9.7 inch-pound.
7. Clip the antenna vertically onto the L-shaped Mounting Bracket.

NOTE

For maximum coverage, the antenna should installed in the upright position. To maximize the signal strength, avoid sharp bends to the RF cable of antenna.



8. Tighten the gland nut using a torque of 3.00-3.75 Nm / 26.6-33.2 inch-pound.
9. Reconnect power to the cabinet by turning-on the main circuit breaker on the power distribution panel.

Antenna Specifications

Model number – AS4034-1		Unit
Electrical		
Frequency Range	824 - 960	MHz
Antenna Type	Co-linear Dipole	
Radiation	Omni Directional	
Gain (Max)	2	dBi
Polarization	Vertical	
VSWR	≤ 4.0	
Impedance	50	Ohm
Cable	RG316	
Connector	RP SMA	
Mechanical		
Dimensions (Length x Diameter)	7.87 x 0.78 / 200 x 20	inch / mm
Cable length (Maximum)	12.5 / 180	inch / cm
Weight	67	gram
Application	Indoor/Outdoor	
Material	PC Lexan 503R-WH5151L	
Storage and operating temperature	-40 to +85	°C
Storage Humidity	10% ~ 90% non-condensing	
Operating Humidity	5% ~ 90% non-condensing	