

Rapid Shutdown Disconnect Switch & Cable Entry Port

INSTRUCTIONS

PART #: PV-RSD1



The Rapid Shutdown Disconnect Switch (RSD) and Cable Entry Port (CEP) allow users to quickly shut down solar power at the source, without the hassle of climbing on the roof of an RV or any other inconvenient location that has solar power installed. The prewired design decreases the amount of labor needed for installation.

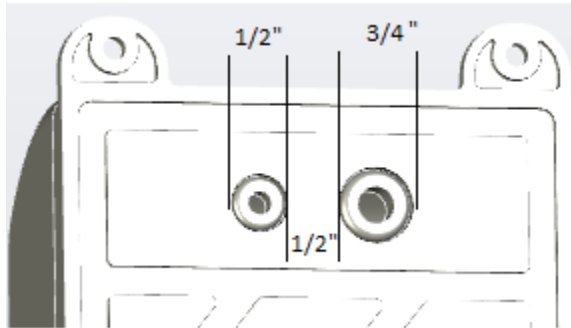
FEATURES:

- Includes Rapid Shut Down Switch for PV (RSD) & Cable Entry Port (CEP)
- Automatically shuts down solar power if no 12V present protecting solar equipment
- Manual option using the simple push switch
- Conveniently shuts down solar power for weatherproofing or performing system maintenance
- Lockout function for extra safety
- Includes bare end 10" leads on the RSD & CEP (these will need to be extended to fit your application)
- CEP includes compatible MC4 connections
- Waterproof

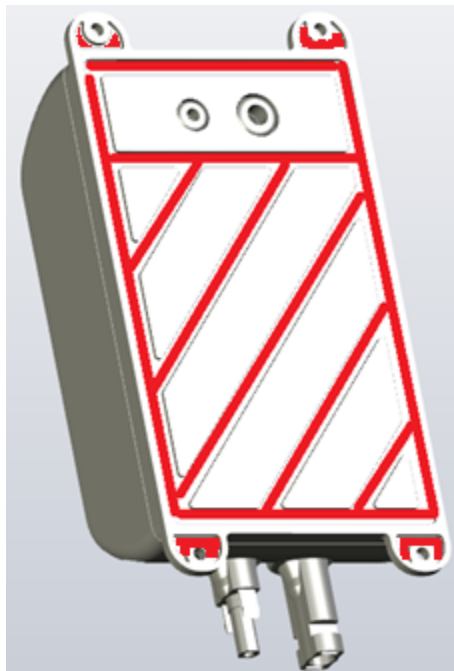
INSTALLATION

CEP Installation:

We recommend measuring and marking your location first, taking the prewire leads into consideration when finalizing the location. When installing the CEP, you will need to drill a ½ inch hole for RSD lead and a ¾ inch hole for Charger Controller PV leads going into the RV. The drilled holes will need to be spaced ½ inch from each other (shown below).



Next you will need to fill in the glue line with appropriate waterproof silicone or sealant for your roofing material. See below for red glue lines.

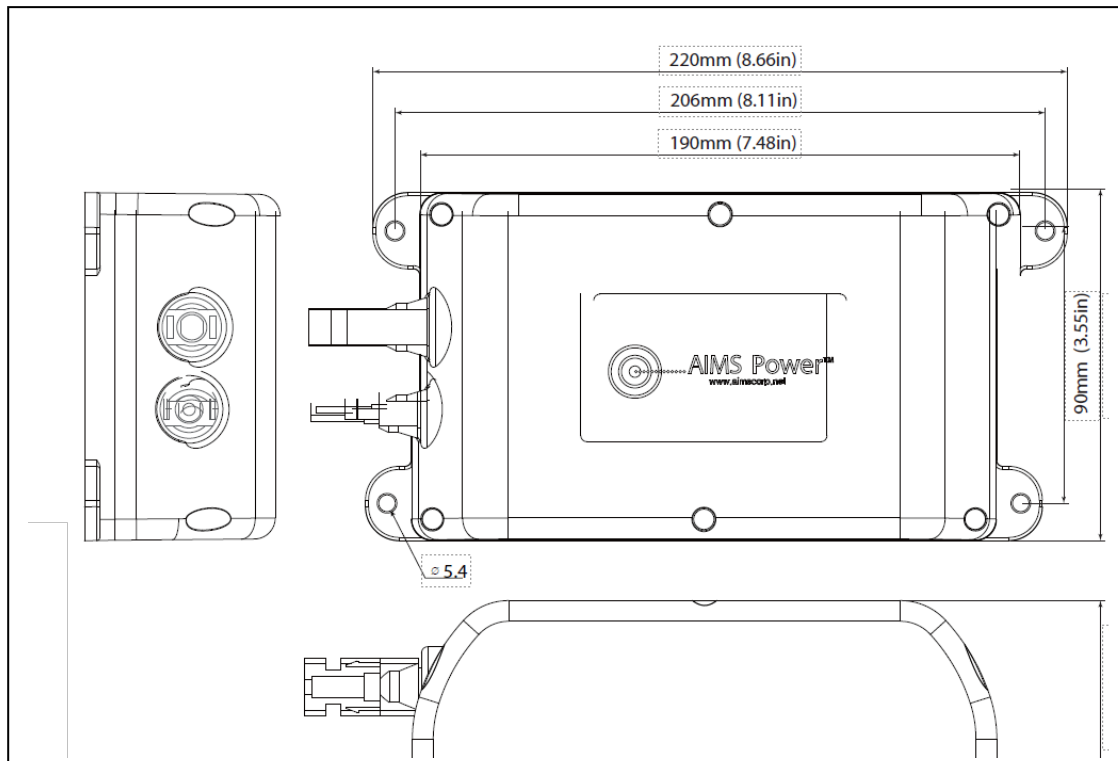


After applying silicone or sealant, you will need to feed the leads into the drilled holes and set the CEP in desired location.

Once the CEP is set in the desired location, it will need to be permanently mounted using the 4 mounting tabs shown below with the appropriate fasteners for your roofing material.



CEP Dimensions



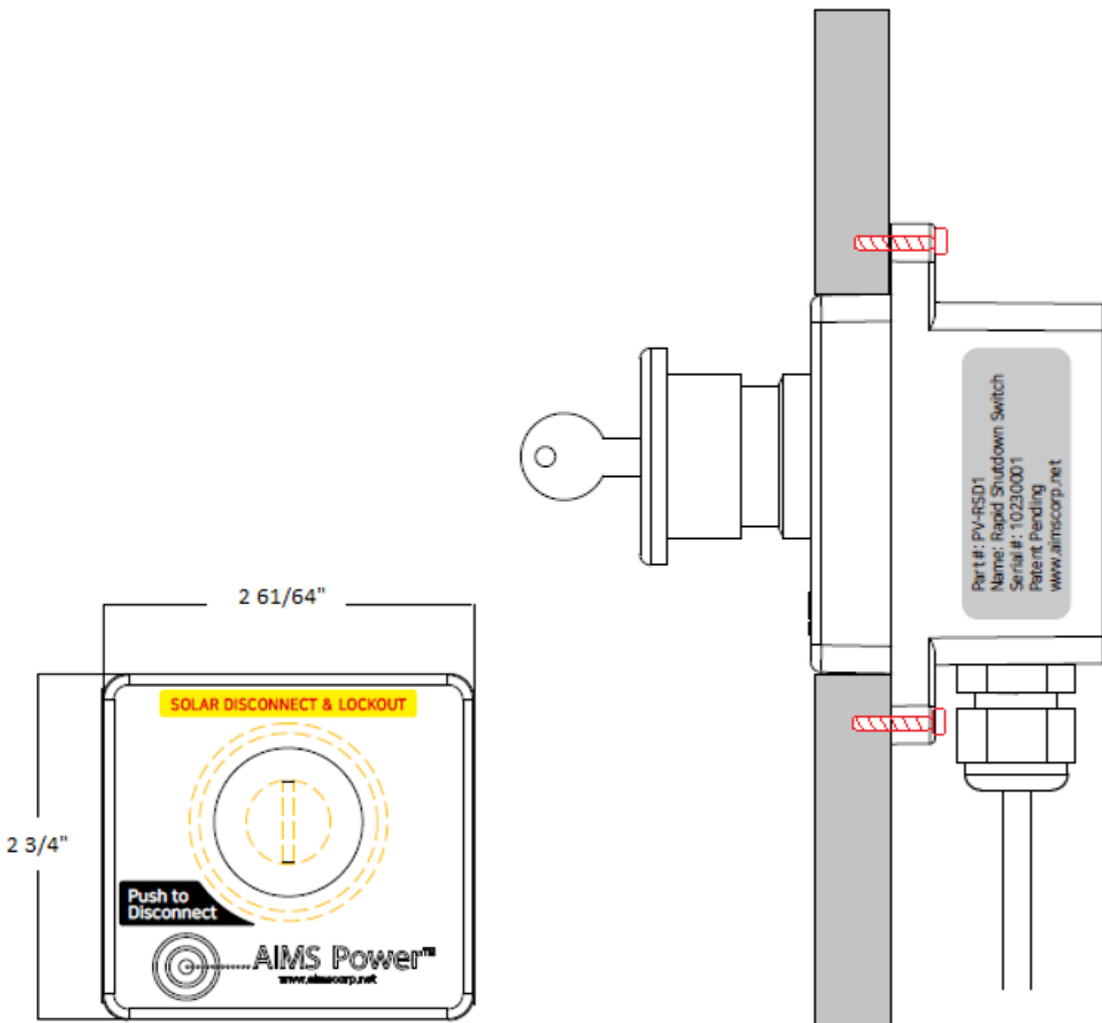
RSD Installation:

There are two options when installing the Rapid Shutdown Disconnect Switch. You can mount behind the switch (usually the screws will not show on the mounting surface) or through the front of the switch. Depending on the thickness of the mounting surface, Option 1 gives you more flexibility for a flush installation.

Option 1

The RSD will be mounted from behind the wall and behind the switch, with the face and button protruding through the cutout. The cutout dimensions are shown in the following diagrams, and mounting screws shown in RED.

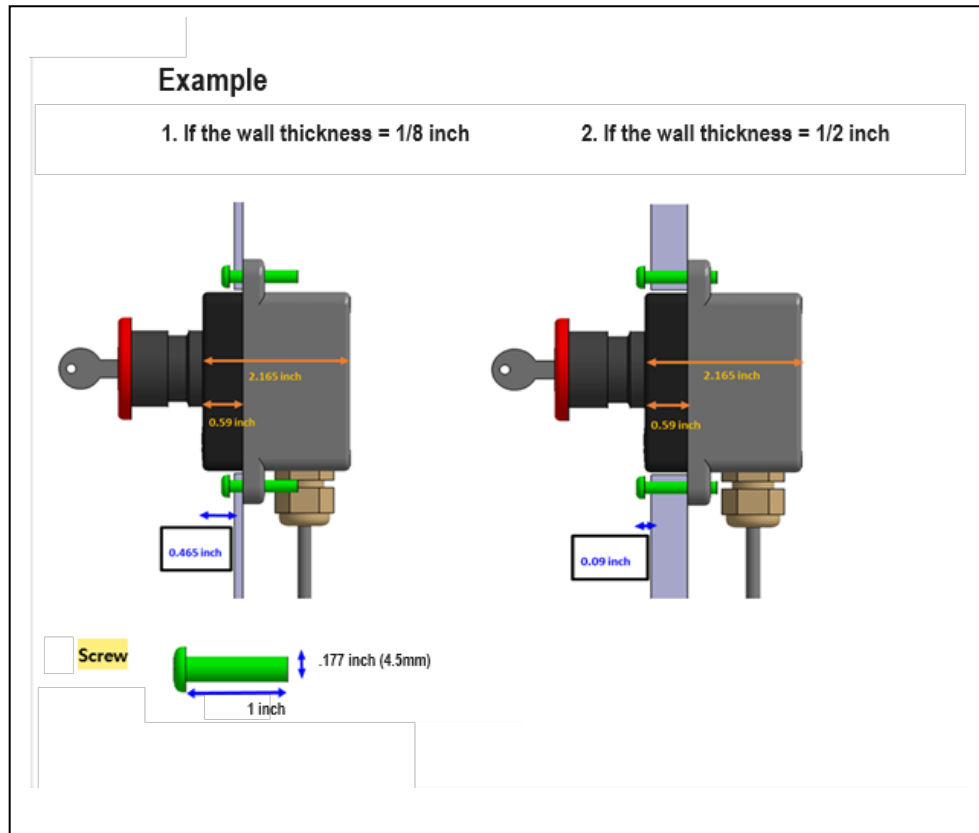
Mounting screws are not included and will need to be sourced for your appropriate mounting material

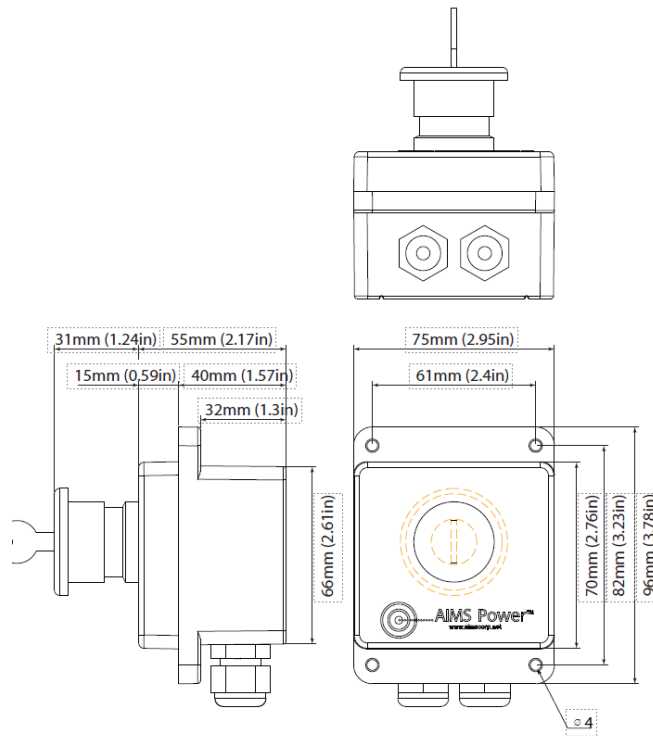


Option 2

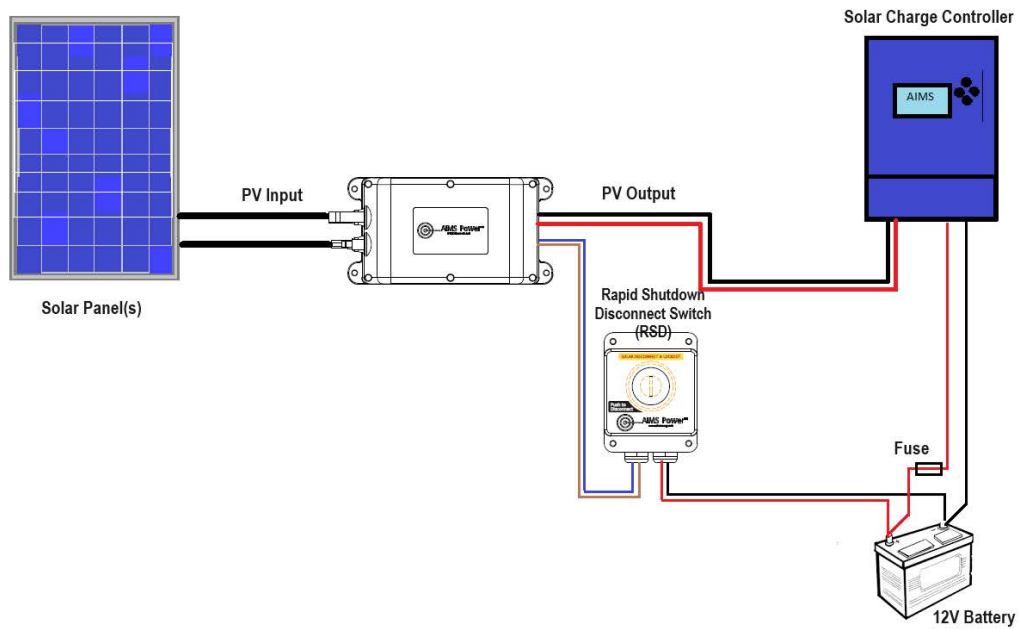
The RSD will be mounted on the front of a wall or mounting surface. The cutout dimensions are shown below, and mounting screws shown in GREEN.

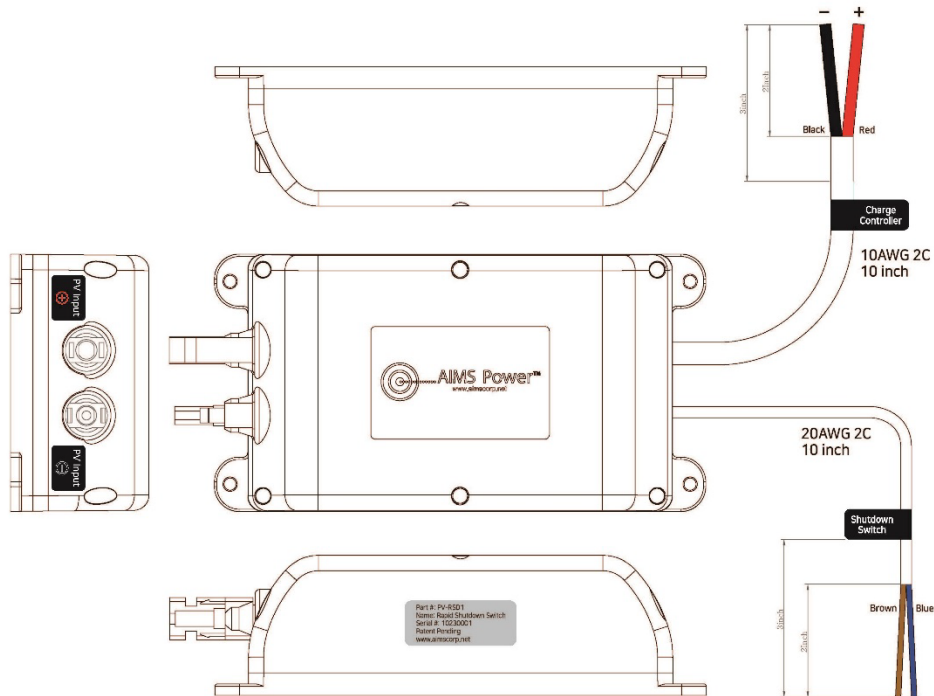
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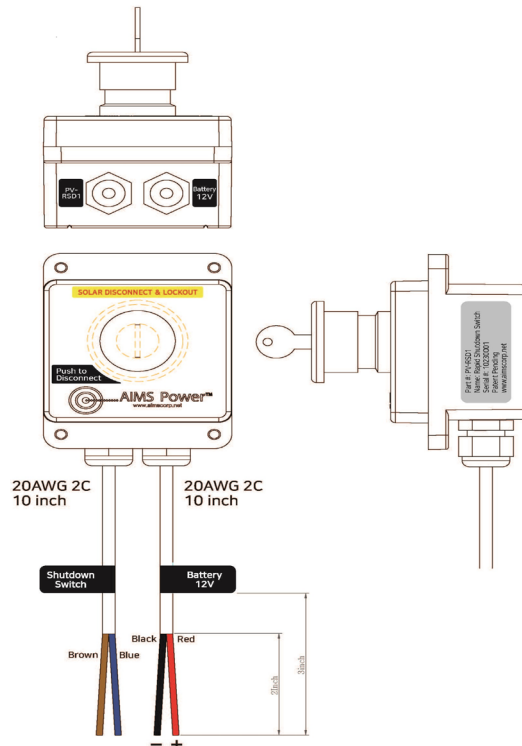


Wiring Diagram





RSD Diagram



Cable Entry Port (CEP)

PV Input Voltage	12-160 VDC
Maximum Current	40A ±5%
Temperature range	-40F to 185F ±5%
Fuse	50A
Dimensions w/MC4 Connectors	9.66(D) x 2.44(H) x 4.49(W) inch
Waterproof rating	IP65
Weight	1.37 lb

Rapid Shutdown Switch (RSD)

Relay operating range	10-17 VDC ±0.5V
Lock	Keyed
Shutdown	Automatic & Manual
Dimensions	3.41(D) x 2.17(H) x 2.95(W) inch
Weight	0.62 lb

***Patent Pending**

2 Year Warranty

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