

Instructions to use the Rapid shutdown (RSD) switch connections

Each Enphase Storage system with IQ8 PV requires the presence of a rapid shutdown (RSD) switch. Rapid shut down switch is needed to disconnect all PV panels, battery and generator systems in the building/home to ensure the safety of maintenance technicians. When the RSD switch is engaged, the Enphase storage system will be shutdown and the home is connected to the grid.

The contents of the Rapid shurdown (RSD) switch connections and how to use them are described below:

Components that are needed for RSD connection

S.No	Component	Source of Components	Qty
1	RSD switch	RSD kit (SKU: EP200G-NA- 02-RSD)	1
2	NEC label 1	RSD kit (SKU: EP200G-NA- 02-RSD)	1
3	NEC label 2	RSD kit (SKU: EP200G-NA- 02-RSD)	1
4	Cable head assembly	Enpower R2 literature kit	4
5	12 AWG wire (for RSD connections)	Provided by Installer	Length as required
6	8-14 AWG wire (for Ground bar)	Provided by Installer	Length as required
7	Screw drivers (PZ2)	Provided by Installer	1

Wiring the auxiliary contacts in Enpower R2

- A) The Enpower R2 comes with multiple auxiliary contacts as indicated in Figure 1.
- B) The contacts NC3 and NC4 are for wiring the RSD (indicated in the red box in Figure 1).
- C) The Enpower literature kit comes with cable assembly header which is shown in Figure 2a.
- D) Insert the ferrule of the cable header assembly to the feed through header which is indicated in Figure 2b.
- E) Tighten the screws on the top (torque 0.22Nm to 0.25Nm) to secure
- F) Repeat steps D and E to complete wiring of other 3 terminals of NC3 and NC4.

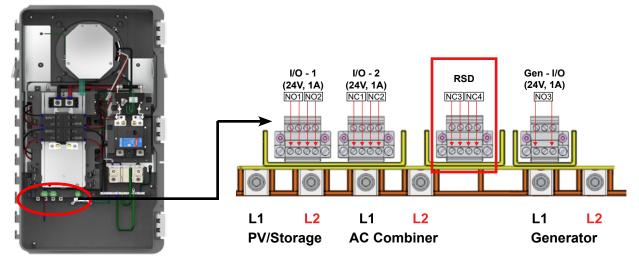


Figure 1: Layout of auxiliary contacts in Enpower, Terminals for connecting RSD are indicated in red

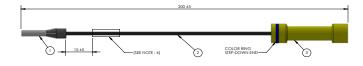


Figure 2a: Cable header assembly

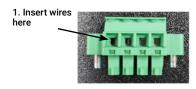
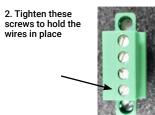


Figure 2b: Feed through header





Wiring the switch inside the Rapid Shutdown (RSD) enclosure

- A) Open the front face of the RSD by loosening the two screws on the front face.
- B) Create wiring conduit in the top/bottom portion of the enclosure. There are knock outs provided for this.
- C) Screw in 12AWG wires to terminals marked 1,2,3 and 4 of the switch. Torque values can be found in the below table.
- D) Screw in 8-14 AWG wire to the Ground bar within the enclosure. Torque values can be found in the below table.
- E) Draw the wires out through the conduit which has been created in the enclosure.
- F) Secure the switch to the rear plate of the enclosure by torquing the screws as indicated in figure 3. There are 2 screws to be torqued. The screws can be found in the RSD kit.
- G) Fit the front face and torque the screws. Torque values can be found in the below table.
- H) The torque rating of each of these wires/screws are as below:

S.No	Point of Torquing	Torque (Nm)
1	Terminal 1,2,3,4	1.8
2	Ground	0.8-1.4
3	Front cover	1.5
4	Screws to secure Switch	0.6

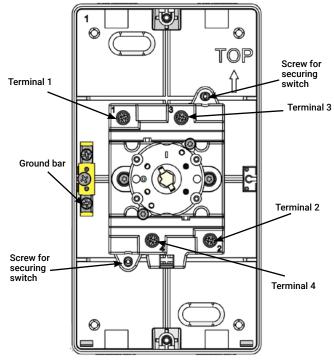


Figure 3: Final RSD wiring

4 Mounting the RSD

- A) Identify a location which is near the Enpower smart switch to mount the RSD. Please note that Enpower and RSD cannot be more than 200 ft apart.
- B) There are 2 mounting points on the back plate of the enclosure. They are marked by red boxes in Figure 4 below.
- C) Installers can use any type of mounting as long as they are not exceeding the diameter of each fixing point.
- D) It is recommended that installers use #8 screw, with a minimum recommended length of 1.5 inches. The type of screw is to be determined by installer based on where they wish to mount the RSD.

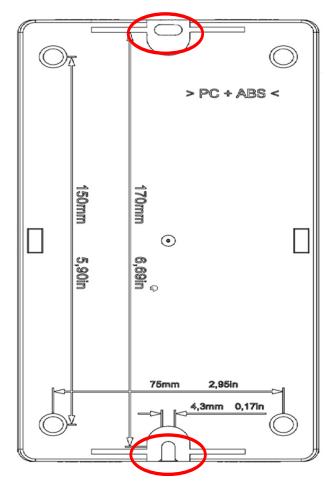
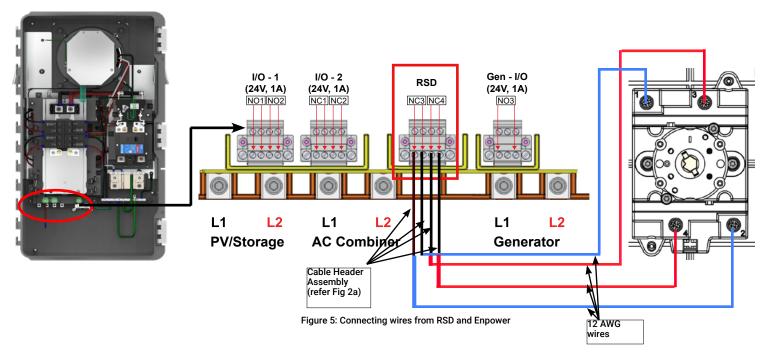


Figure 4: Mounting location in backplate of RSD

Connect wires from RSD and Enpower

- A) Connect the cables connected from Terminal 1 and 2 of the RSD to the yellow portion of the cable header assembly (Figure 2) from NC3 and crimp it.
- B) Connect the cables connected from Terminal 3 and 4 of the RSD to the yellow portion of the cable header assembly (Figure 2) from NC4 and crimp it. Refer to Figure 5 and table below.
- C) Connect the cable from the grounding bar to the Ground bar in Enpower.
- D) Ensure Cables are properly sheathed and are not lose or exposed to environment.



Dry Contact	Terminals	RSD Terminals to be connected
NC3	Terminal 1	Terminal 1
NC3	Terminal 2	Terminal 2
NC4	Terminal 1	Terminal 3
NC4	Terminal 2	Terminal 4

6 Functional tests

- A) Use the ITK to check if the RSD is working as desired. When the RSD is engaged (turned to OFF position), all the relays except the MID will be open. Only the MID relay will be closed. Hence effectively isolating the home from the PV, battery and generator.
- B) In order to check if the RSD is functioning as required, open the ITK and manoeuvre to the Enpower page.
- C) Turn the RSD rotary handle to OFF position.
- D) In the ITK's Enpower page, click on "View Live details".
- E) In the view live details page, the relay status should be as shown in Figure 6 below. The MID relay should be closed and all other relays should be in open position.
- F) When RSD handle is shifted to ON position, the Enpower goes back into functioning normally as it was.

MID	EC1 L1	EC1 L2	NFT L1	NFT N
Closed	Open	Open	Open	Open

Figure 6: ITK checking of Relay status

Complete the installation by affixing the labels

A) In order to identify the Rapid shut down switch the following label (in Figure 7) needs to be pasted at a distance of not more than 3ft (1m) from the RSD, as mandated by the NEC code.

B) In order to earmark the parts of the array which will be shut down by using the RSD the following sticker (Figure 8) needs to be pasted in the location specified by the Authority having jurisdiction or at a distance of not more than 3ft (1m) from from the RSD, as mandated by the NEC code.

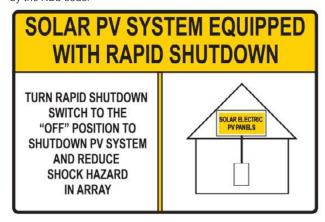


Figure 8: Sticker for showing portions of PV array which will be shut down using RSD

Instructions for initiating Rapid Shut down and Enpower System shut down

Rapid shut down of the system can be initiated by turning the handle of the RSD to the OFF position. With this one step the entire Enphase system (PV arrays, Encharge battery, Generators connected to Enpower) is shut down and the regulatory requirement for rapid shut down are also met.

NOTE: For more details of the RSD switch options and wiring instructions, please refer to Enpower R2 QIG or the Ensemble R2 design guide

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

SAFETY

IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS. This guide contains important instructions that you must follow during installation and maintenance of the Enphase Enpower. Failing to follow any of these instructions may void the warranty (enphase.com/warranty).

In Case of Fire or Other Emergency

In all cases:

- If safe to do so, switch off the AC breaker for the Enpower circuit, and if an isolator switch is present, switch off the AC isolator for the Enpower circuit.
- · Contact the fire department or other required emergency response team.
- Evacuate the area

In case of fire:

 When safe, use a fire extinguisher. Suitable types are A, B, and C dry chemical fire extinguishers. Additional extinguishing media include carbon dioxide, or alcohol-resistant foams.

In case of flooding:

- · Stay out of water if any part of the Enpower or wiring is submerged.
- If possible, protect the system by finding and stopping the source of the water, and pumping it away.
- If water has contacted the UNIT, call your installer to arrange a inspection.
 If you are sure that water has never contacted the battery, let the area dry completely before use.

In case of unusual noise, smell or smoke:

- Ensure nothing is in contact with the Enpower or in the venting area on top of the Enpower.
- · Ventilate the room
- · Contact Enphase Customer Support at enphase.com/en-us/support/contact.

DANGER: This indicates a hazardous situation, which if not avoided, will

Safety and Advisory Symbols

77	result in death or serious injury.
\triangle	WARNING : This indicates a situation where failure to follow instructions may be a safety hazard or cause equipment malfunction. Use extreme caution and follow instructions carefully.
/	NOTE: This indicates information particularly important for optimal system operation. Follow instructions carefully

Safety Instructions

A	DANGER : Risk of electric shock. Risk of fire. Only qualified electricians should install, troubleshoot, or replace the Enpower.
A	DANGER: Risk of electric shock. Risk of fire. Do not attempt to repair the Enpower. Tampering with or opening the Enpower will void the warranty. If the Enpower fails, contact Enphase Customer Support for assistance at enphase.com/en-us/support/contact .

Safety Instructions, continued

	persons or demograte equipment
	persons, or damage to equipment.
A	DANGER: Risk of electric shock. Do not install the Enpower without first
	removing AC power from the photovoltaic system and ensuring that the DC
	switch on the Enphase Encharge batteries are off. Disconnect the power
	coming from the photovoltaics and ensure that the DC switch on the En-
	charge batteries are off before servicing or installing.
	DANGER: Risk of electric shock. Risk of fire. Do not work alone. Someone
A	should be in the range of your voice or close enough to come to your aid
	when you work with or near electrical equipment.
<u>↑</u> <u>↑</u> <u>↑</u> <u>↑</u>	DANGER : Risk of fire. Do not allow or place flammable, sparking, or explosive
<u> </u>	items near the Enpower.
^	DANGER: Risk of electric shock. In areas where flooding is possible, install
/{\	the Enpower at a height that prevents water ingress.
	WARNING: Risk of equipment damage. Enpower is shipped and stored on its
\wedge	
<u> </u>	back. The upright position is only needed when installed.
٨	WARNING : You must install the Enpower only on a suitable wall using an
$\angle!$	Enphase wall-mount bracket.
	WARNING: Before installing or using the Enpower, read all instructions and
Λ	
<u></u>	cautionary markings in this guide and on the equipment.
Λ	WARNING : Do not install or use the Enpower if it has been damaged in any
$\angle : \lambda$	way.
^	WARNING: Do not sit on, step on, place objects on, or insert objects into the
/!\	Enpower.
<u>↑</u> <u>↑</u> <u>↑</u> <u>↑</u> <u>↑</u> ,/	
\wedge	WARNING : Do not place beverages or liquid containers on top of the
<u> </u>	Enpower. Do not expose the Enpower to flooding.
1	NOTE: Perform installation and wiring, including protection against lightning
V	and resulting voltage surge, in accordance with all applicable local electrical
	codes and standards.
/	NOTE: Because Encharge is grid forming, you must install signage in accord-
•	ance with NEC articles 705, 706, and 710.
./	NOTE: Using unapproved attachments or accessories could result in dam-
V	age or injury.
/	NOTE: Install properly rated over current protection as part of the system
✓	installation.
	NOTE : To ensure optimal reliability and to meet warranty requirements, the
/	
•	Enpower must be installed and/or stored according to the instructions in this
	guide.
/	NOTE: The Enpower is compatible only with the IQ Envoy or Envoy
V	S-metered communications gateway properly fitted with USB hub, USB
	radios, and production and Consumption/PCS CTs. The Envoy is required
	induios, and bioduction and consumbtion/ FCS C13. The Livov is required
	for operation of the Enpower. Earlier versions of the Enphase Envoy commu-
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DANGER: Risk of electric shock. Do not use Enphase equipment in a manner

not specified by the manufacturer. Doing so may cause death or injury to



Environmental Protection

ELECTRONIC DEVICE: DO NOT THROW AWAY. Waste electrical products should not be disposed of with household waste. Refer to your local codes for disposal requirements.