



PROJOY PEFS-PC Series RSD Panel Level Rapid Shutdown Control Box Installation Guide

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PROJOY PEFS-PC Series RSD Panel Level Rapid Shutdown Control Box



Scope and General

The manual only used to PEFS-PC Series Array-level Rapid Shutdown Control Box.

Version	Date	Remark	Chapter
V1.0	2021-10-15	First Edition	–

Important Safety Precautions

Disclaimer

PROJOY assumes no responsibility for any loss, in particular for circuit damage, resulting from any violation of the specifications recommended and referred to in this specification. PROJOY assumes no responsibility for the damage of the product caused by the maintenance, improper use, wrong installation or wrong system design of the product by non-designated personnel.

Safety instructions

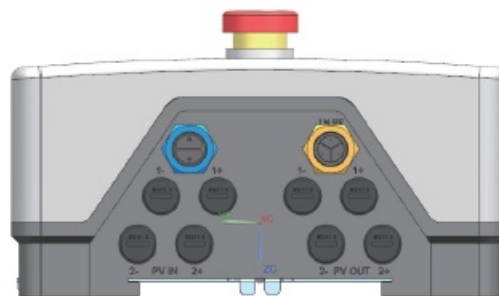
1. PEFS is an electrical product that should be installed by a suitable person who meets local regulations.
2. When modifying an existing installation, isolate the inverter from the PV array by turning OFF the DC isolator/switch disconnect or turning OFF the inverter and the AC switch.
3. Incorrect connections to the PEFS-PC may cause failure.

Cautions

If the inverter and PV module connectors are not compatible with PEFS connectors, forced connections are unsafe and may cause operational problems. For the mechanical compatibility of the module/converter and PEFS, use the same connectors from the same manufacturer on both the PEFS and modules, or obtain verification that the connectors to be used are compatible.

Introduction

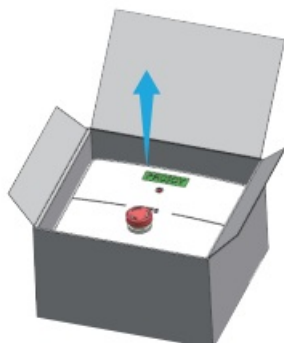
PEFS -PC Emergency Rapid Shutdown Switch Unit (excludes 24 VDC power supply)



Installation & Connection

The installation locations and modes of PEFS-PC are shown below.

1. Open the box, take out PEFS-PC and parts, read this manual.



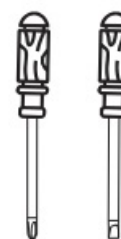
2. Prepare materials and tools.



expansion bolt

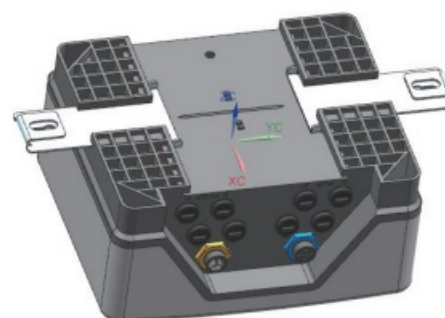
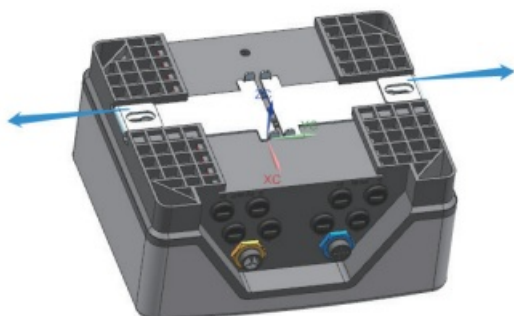


ST4.8x38



cross/straight screwdriver

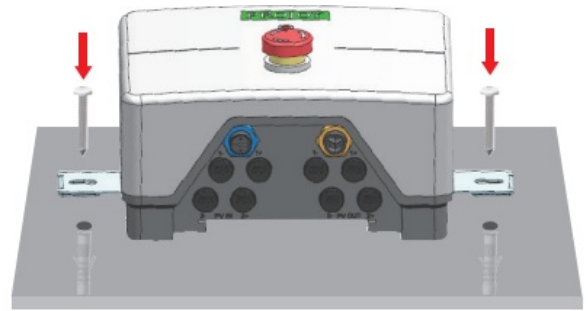
3. Pull out the clasps to both sides.



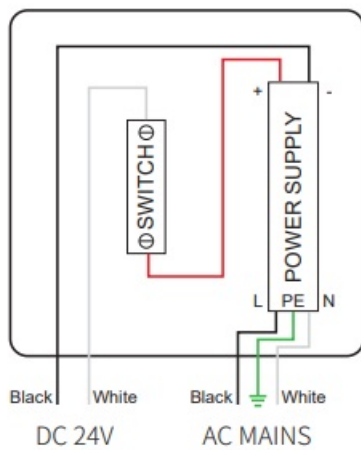
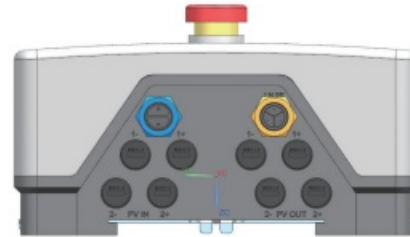
4. Screwing



installation location(e.g. wall)



The Emergency Rapid Shutdown Switch Unit PEFS-PC can be conveniently located anywhere for emergency access and is supplied with an internal 24VDC power supply to interface with the PEFS-PC units.



Technical Specification

Type	PEFS-PC
Input Voltage	100~240V AC
Rated input current	200mA (Vi 115VAC) / 135mA (Vi 230VAC) Rated
Output Voltage	24V DC
Controlled fast shutdown number	≤60 pcs PEFS-PL80S-11 or ≤30 pcs PEFS-PL80S-21
With Lock	Optional
Dimensions	210×200×120 mm
Ambient Operating Temperature	-30°C ~ +55°C
Communication	GPRS Optional

Trouble Shooting

Problem	Possible Cause	Possible Solution
Panel (pair) voltage is 0 V	No mains supply	Check area utility operational
	(LED OFF)	Check mains ON
		Check mains fuse
	PEFS-PC power supply failure	Check mains voltage between L&N marked terminals
		Check 24VDC between + & – marked terminals
	PEFS-PC switch activated	Turn red actuator anti-clockwise to release button
	No PEFS-PC switch output	Check 24VDC between switch out terminal & PSU – marked terminal
	Broken cable	Check 24VDC between terminals of remote AMP
		Superseal connector (pin 1 +24VDC\pin 2 0VDC)
	PV array not connected	Check all PV to PEFS-PC input connections
	Incorrect PEFS-PC polarity connection	Check PV array Positive (+) goes to PEFS-PC
		Positive (+) and PV array Negative (-) goes to PEFS-PC Negative (-)
	No PEFS-PC output	Replace PEFS-PC
PV Inverter input 0V	No DC isolator (if fitted)	Check PEFS-PC output connections
	input	Check DC inputs to the isolator
	DC Isolator (if fitted) OFF	Turn DC Isolator ON
String voltage too low	Incorrect PEFS-PC polarity connection	Check all PV array Positive (+) go to PEFS-PC
		Positive (+) and PV array Negative (-) goes to PEFS-PC Negative (-)

In the occurrence of a fire, PROJOY recommends that all elements of the PEFS Rapid Shutdown system be assessed for operational suitability by a competent person prior to re-energizing.

Aftersales service and warranty

This product is manufactured in a sophisticated quality management system. In case of fault, the following warranty and after-services clauses are applicable.

Warranty

On the premise of the user's compliance with the reservation and use specifications of the breaker, for breakers whose delivery date is within 60 months from now and whose seals are intact, PROJOY will repair or replace any of these breakers which are damaged or cannot work normally due to manufacture quality. However, as for faults caused by the following reasons, PROJOY would repair or replace the breaker with a charge even if it is still under warranty.

1. Due to incorrect use, self-modification, and improper maintenance, etc.:
2. Use beyond the requirements of standard specifications;

3. After the purchase, due to falling and damage during installation, etc.;
4. Earthquakes, fires, lightning strikes, abnormal voltages, other natural disasters and secondary disasters, etc.

Aftersales service

1. Please contact the supplier or our company's after-sales service department in case of failure;
2. During the warranty period: For failures caused by the company's manufacturing problems, free repairs and replacements;
3. After the warranty period expires: If the function can be maintained after the repair, make a paid repair, otherwise it can be replaced with a paid one.

Contact us

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Documents / Resources



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PEFS-PC Series, RSD Panel Level Rapid Shutdown Control Box, PEFS-PC Series RSD Panel Level Rapid Shutdown Control Box