- Switch To Safety! -

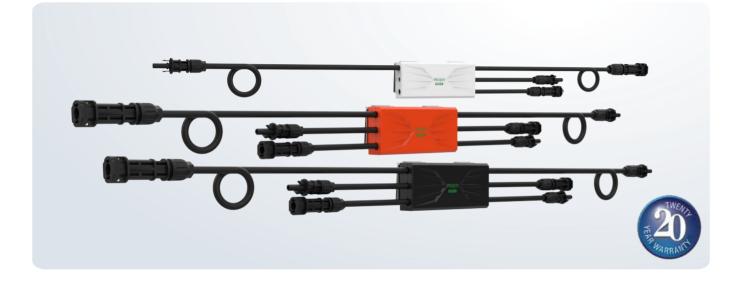












High Craftsmanship and Standards









Over temperature protection ≥ 85°C

Max 20A support

Flame retardant: UL94-V0

Ingress protection: > IP68 / NEMA 4X













SUNSPEC protocol compliance

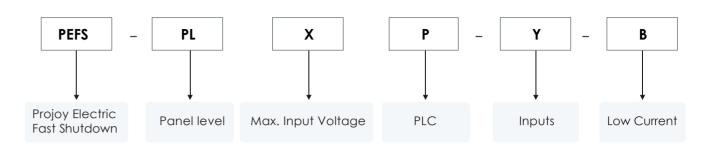
long lifespan for 25 years

Slim Design, Extremely Easy Installation

1V/RSD troubleshooting solution available

Dual frequency brands signal transmission

Naming



Technical Data

Туре	PEFS-PL80P-11	PEFS-PL80P-21
Number of PV Inputs	1	2
Number of Modules Recommend	1	2
Maximum Allowed Input Voltage	80V	80V
Maximum Allowed Input Current	15A / 20A	
Maximum Output Voltage	80V	160V
System Voltage	1000V / 1500V	
Control Compliance	Power Line Communication (PLC)	
Protections	Input Over / Under Voltage	
Ambient Operating Temperature	-30° C to +60° C	
Protection Temperature	85° C	
IP Level	>IP68, NEMA 4X	
Fire-proof Level	Flame retardant, UL94-V0	
Humidity	0%~90%	
PV Connectors	MC4 (Customized)	
Design Life Span	25 years	
Size	120*43.8*20mm	
Weight	< 150g (Excluding Cables)	
Cable Length, PV1+ Input	120mm	120mm
Cable Length, PV1- Input	1200mm	1200mm
Cable Length, PV2+ Input	1	1200mm
Cable Length, PV2- Input	1	120mm
Cable Length, Power Output	650mm+650mm	1250mm+1250mm
Standard Comliance	NEC2017/2020 (690.12); UL1741; UL3741; IEC/EN62109; IEC/EN61000	

Tripping Ways

Porjoy RSD Overview

The Projoy RSD is designed to be installed at solar panel level and provides safety shutdown of the DC supply to ZERO VOLTS in case of emergency. Shutdown is initiated in 3 ways - Manual Operation, AC Supply Cut-Off or Temperature Rise Trigger as follows:

Temperature Rise Trigger



Automatic shutdown occurs if the temperature sensor on board of the RSD detects an ambient temperature rise above 85C

AC Supply Cut-Off

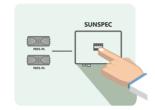


Disconnection of the external AC supply, by whatever means, causes automatic remote operation of the Emergency Rapid Shutdown Switch and solar panel shutdown.

Manual Operation



Manual shutdown is initiated within less than 0.1 second of operation by pressing the emergency pushbutton on the Emergency Rapid Shutdown Switch. The Emergency Switch can be conveniently located at ground level for easy access or multiple switches can be installed in different multi-level



Command Trigger

Following SUNSPEC, inverter can send command directly to RSDs to shutdown.



Fail-Safe Operation

The RSD is designed for fail-safe operation ensuring that, will not compromise the solar panel isolation and shutdown status, maintaining full zero volt isolation.



building zones.

North American Solar Market **Approvals**

The RSD has been extensively tested by ETL to meet the various PV standards required within the North American market.



UL1741 PVRSE Certification

The RSD is fully certified to UL1741 PVRSE (PV Rapid Shutdown Equipment) for applications.

As a dedicated RSD operating as a safety switching without communications protocols, which is compatible with any PV inverter unit.



UL3741 PVRSS Certification

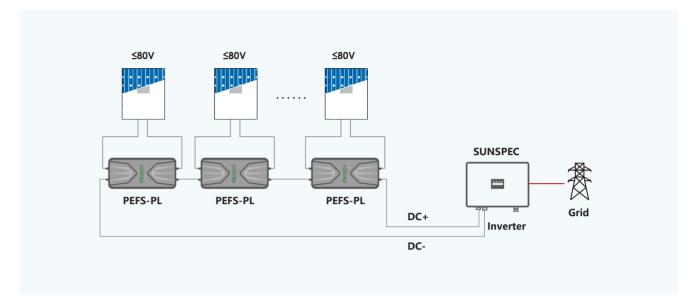
The RSD is fully certified to UL3741 PVRSS (PV Rapid Shutdown System) for applications. As a dedicated RSD operating as a safety switching without communications protocols, which is compatible with any PV inverter unit.





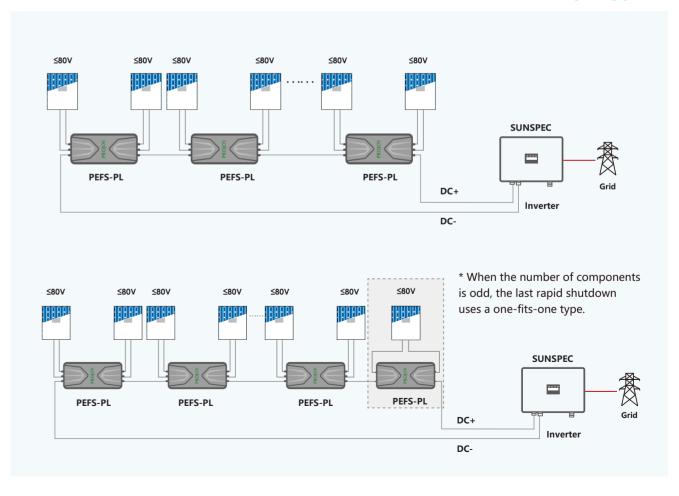
When the open-circuit voltage of PV panel is below 80V.

PEFS-PL80P-11



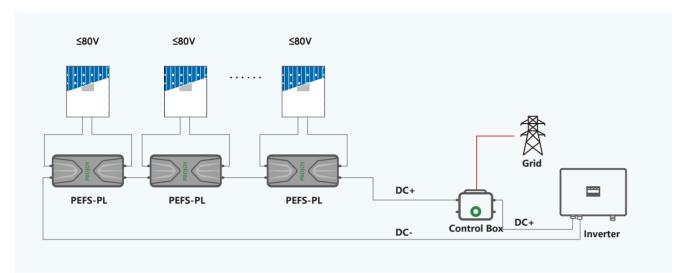
When the open-circuit voltage of PV panel is below 80V.

PEFS-PL80P-21



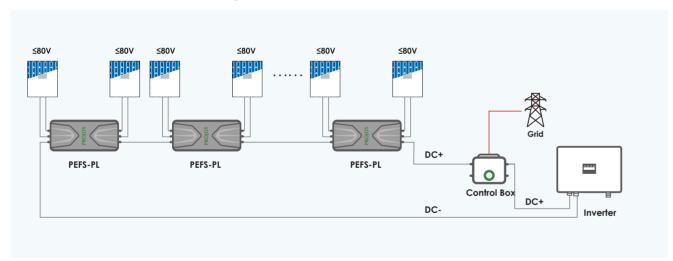
When the open-circuit voltage of PV panel is below 80V.

PEFS-PL80P-11

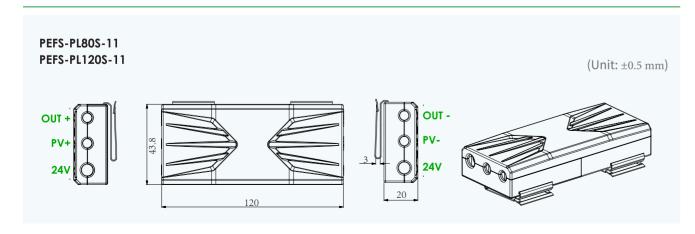


When the open-circuit voltage of PV panel is below 80V.

PEFS-PL80P-21



Dimension





PROJOY electric

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