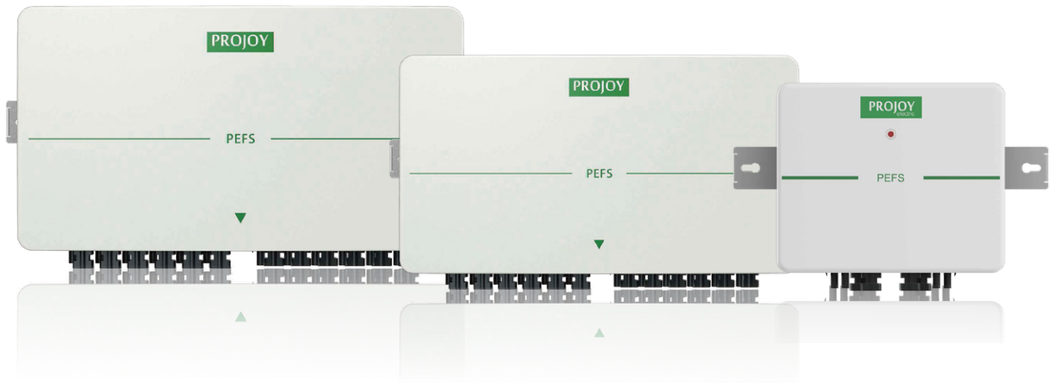
PROJOY electric
*Switch To Safety!*

# PEFS Series

*Firefighter Switch (P2) 1~10 Strings*




## High Craftsmanship AND High Standards

Max 1500V
Max 50A

Arc Fault protection
(Optional)

PID recovery
(Optional)

Flame retardant
UL94-V0

Easy Installation

Physical isolation

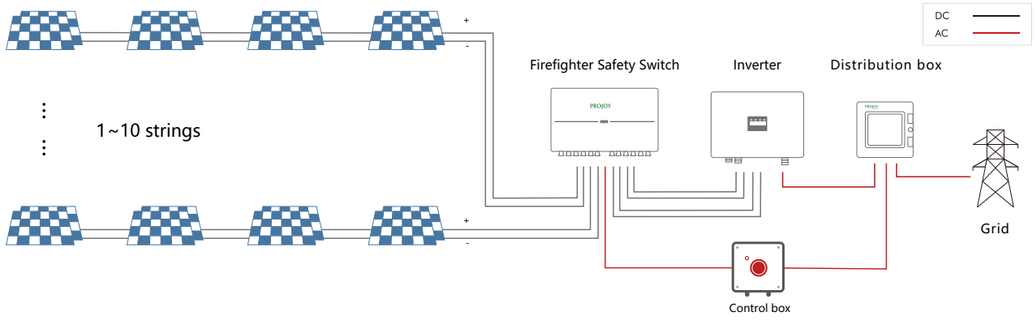
IP65

Outdoor installation
IP65

Over temperature
protection > 70℃

FB1 FB2
function achieves
external monitoring

## Diagram

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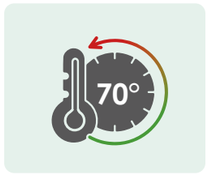
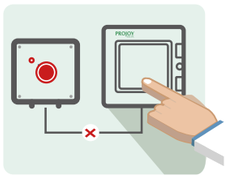
## Tripping ways

By temperature




By AC Power cut-off



By Manual

## Technical data

| Technical Parameter | 1-2 strings | 3-5 strings | 6-10 strings |
|---|---|---|---|
| **Main Parameters** | | | |
| System voltage (Vdc) | 300~1500 | | |
| Max current (A) | 50 | | |
| Number of strings | 1/2 | 3/4/5 | 6/8/10 |
| Poles | 2/4 | 6/8/10 | 12/16/20 |
| Operating voltage | 100Vac - 270Vac | | |
| Nominal voltage | 230Vac | | |
| Nominal current | 30mA | 30mA | 60mA |
| Operating temperature | -40°C - +70°C | | |
| Automatically switch off by temperature | +70°C | | |
| FB1 FB2 function (Standard configuration) | Contact Capacity: 250VAC,16A | | |
| Storage temperature | -40°C - +85°C | | |
| Ingress protection level | IP66 | IP65 | |
| Protection level | Class II | | |
| Certification | CE | | |
| Regulations compliance | EN 60947-1&3 | | |
| Mechanical life | 10000 | | |
| Electrical life | >1500 | | |
| PID recovery function | / | optional | optional |
| Arc fault protection | / | optional | optional |

**Projoy Electric Co., Ltd.**

V2.0 20231219

PROJOY electric
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No.90 Chunyao Rd, Xiangcheng District, Suzhou, Jiangsu, China
+86 512 6620 4368 / +86 512 6878 6489
sales@projoy-electric.com
www.projoy-electric.com

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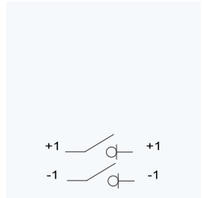
## Technical data

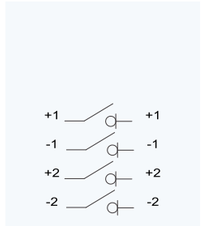
| PID Recovery Module Spec (optional) | | |
|---|---|---|
| AC Input | Static Power | <0.5W |
| | Operating Power | 3.75W |
| | Max. Power | 8.75W |
| DC Output | Rated Output Voltage To Ground | 600V |
| | Rated Output Current | 3.3mA |
| | Max. Short Circuit Current | 6.7mA |
| PV Modules And Inverter Requirements | Max. System Volatage | 1500V |
| | Module Type Required | P Crystalline Silicon Type |
| | Minimum Insulating Impendance | 200kΩ |
| Other Info | Operating temperature Range | -20℃~+60℃ |
| | Operating Relative Humidity | 0%～98% |
| | Max. Altitude Without Derating | 4000m |

| Data of PEFS refer to built-in DC isolators. Data according to IEC60947-3(ed.3.2):2015. Utilization category DC-PV1. | | | | | | 1-10 strings | Part Number |
|---|---|---|---|---|---|---|---|
| 300V | 600V | 800V | 1000V | 1200V | 1500V | | |
| 16A | 16A | 16A | 9A | 6A | 3A | 2/4/6/8/10/12/16/20 | PEFS-EL16-Y-P2 |
| 25A | 25A | 22A | 11A | 8A | 4A | 2/4/6/8/10/12/16/20 | PEFS-EL25-Y-P2 |
| 32A | 32A | 26A | 13A | 10A | 5A | 2/4/6/8/10/12/16/20 | PEFS-EL32-Y-P2 |
| 40A | 40A | 30A | 20A | 15A | 13A | 2/4/6/8/10/12/16/20 | PEFS-EL40-Y-P2 |
| 55A | 55A | 45A | 33A | 33A | 18A | 2/4/6/8/10/12/16/20 | PEFS-EL55-Y-P2 |
| 40A | 40A | 40A | 40A | 30A | 20A | 2/4/6/8/10/12/16/20 | PEFS-EL40H-Y-P2 |
| 50A | 50A | 50A | 50A | 40A | 30A | 2/4/6/8/10/12/16/20 | PEFS-EL50H-Y-P2 |

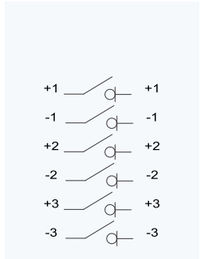
## Contact Configuration



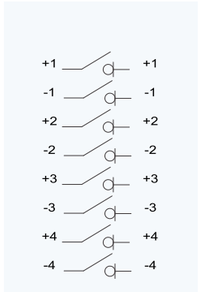

2



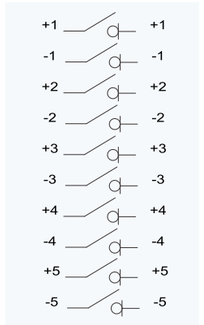

4




6/2*6




8/2*8

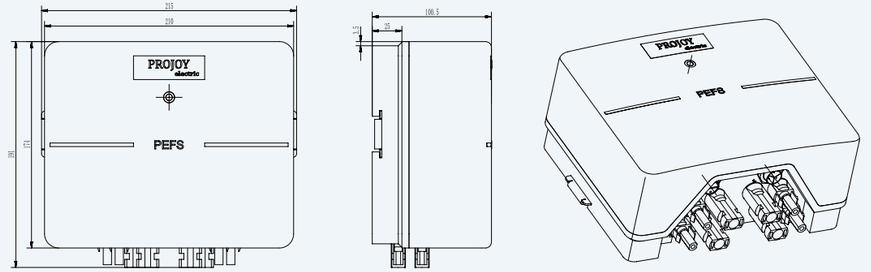



10/2*10

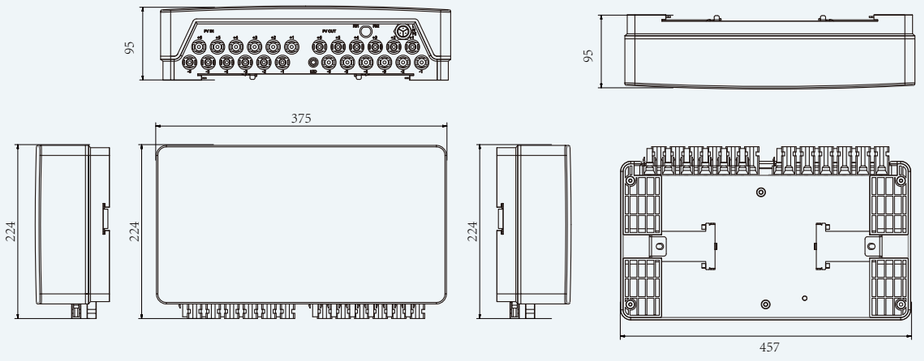
## Dimensions

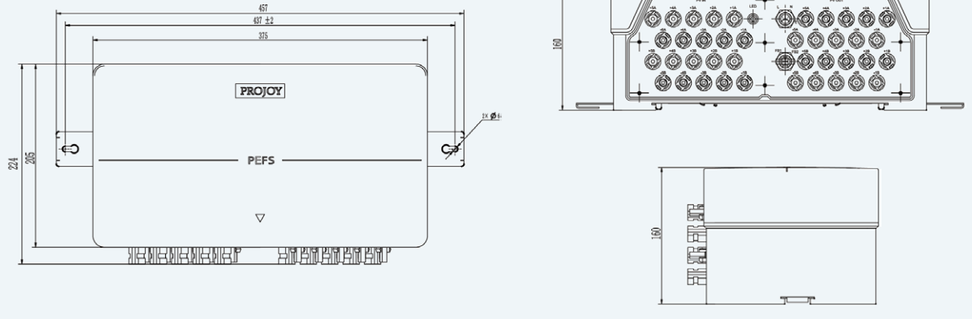
### 1-2 strings

Unit: mm




### 3-5 strings




### 6-10 strings