

PROJOY
electric
– Switch To Safety! –



PROJOY
electric
– Switch To Safety! –

PROJOY
PRODUCTS CATALOGUE

ProJoy Electric Co., Ltd.

2nd Floor, Building 3, No. 2266, Taiyang Road, Xiangcheng District, Suzhou, China
Tel: +86 512 6878 6489 | Fax: +86 512 6878 6489
Email: sales@projoy-electric.com | www.projoy-electric.com

PROJOY ELECTRIC CO., LTD.

en.projoy-electric.com
V5.4 20220523



Company Introduction

PROJOY Electric Co., Ltd. founded in 2011, the headquarters is located in Suzhou China, with convenient transportation. Adhering to the product concept of "Switch to Safety, ", it is the first domestic company who are focusing on providing DC isolation switches, Miniature circuit breakers, DC surge protector , Rapid shutdown, and smart electricity meters for the field of optical energy storage system. With more than 10 years of development, PROJOY Electric currently has two major business divisions, smart electrical division and power electronics division;

Smart Electrical Division

In 2011, Projoy took the lead in independently developing the PEDS series of DC isolation switch products in China. This product is mainly used in photovoltaic inverters, energy storage inverters, DC combiner boxes and other equipment. The product has exquisite design, simple structure and excellent quality. At present, it is the most widely used photovoltaic DC isolator switch in the global market. Approved and used by the 80% of inverter manufacturers.

In 2013, PROJOY Electric successfully independently developed the PEBS series of DC circuit breakers applied in energy storage systems. After years of iteration and accumulation, Projoy has been continuously recognized by customers and is providing high-quality and reliable DC circuit breakers for many of the world's top energy storage battery pack and system manufacturers, such as BYD & Sungrow;

In addition, PROJOY Electric can provide more varieties of electrical products including PESP series of DC surge protector and PEEM series of smart electricity meters for the optical storage and charging system.

With a strong electrical R&D team, the products of Projoy Smart Electrical Division have obtained a number of core patented technologies and a number of electrical product lines with completely independent intellectual property rights. The product technology has reached the world's advanced level and has successively obtained UL, TUV, CE ,CB, CCC,Australian certification and other international certification.

ABOUT PROJOY

2

R & D Center

3W+m²

Plant

600W+

annual production capacity

80%+

Mainstream inverter Manufacturer option



Power Electronics Division

As the fire safety issue of the optical, storage and charging system is gradually paid more and more attention in the world, Projoy actively established the Power Electronics Division to provide new solutions for the safety of photovoltaic systems in forms of power electronics and smart electric.

In 2016, Projoy quickly released the array-level rapid shutdown products of PEFS-EL series. We became the first manufacturer in China with the mass production of rapid shutdown devices. The PEFS-EL series are widely used in Germany,United Kingdom,Philippines and other places. It has become the Tier1 brand in Europe and Asia Pacific markets.

At the same time, Projoy continues to introduce high-tech talents, strengthen product technical advantages and enrich product series to walk at the latest technology forefront. At present, the module level rapid shutdown of PEFS-PL series have passed NEC 2017&2020 (690.12), UL1741, UL3741 and other standards. It now contains a complete 8 product series of 24V (with physical power line) version one fits one, one fits two (80V/120V) and PLC (power line communication) version one fits one, one fits two (80V/120V).

Projoy always adopts advanced production equipment and precise testing instruments, which provides a strong guarantee for the company's product manufacturing and quality control. Products of all series have passed rigorous environment testing and electrical testing. At the same time, we have passed the quality management system ISO9001 and environmental management system ISO14001 certification. Projoy has a professional international marketing team with rich industry experience. Adhering to the localized marketing service concept, it has set up subsidiaries or authorized distributors in Italy, the United Kingdom, Australia, India, South Korea, Brazil, Poland, Thailand, China Taiwan and other places to quickly respond to customers' needs to provide high-quality services in time. In the future, Projoy will always focus on the safety and intelligence of the clean energy field, especially the optical, storage and charging system, adhere to the product concept of "Switch to Safety", and continuously consolidate the company's product series in smart electric and power electronics to enhance the international competitiveness. With its capable management and operation team, world-competitive core technologies, advanced production management concepts, and mature international market channels, Projoy will continue to explore and improve to create a safer and smarter new energy world for all the customers.

International Marketing



- ◆ **2** manufacturing bases worldwide
- ◆ **80%** of China's mainstream inverter manufacturers are using Projoy's photovoltaic isolation switches
- ◆ **40%** of China's mainstream energy storage battery and system manufacturers are using Projoy's DC MCB and the share is rising sharply
- ◆ **Global** marketing network: Germany, Italy, France, Netherlands, Poland, Spain, South Korea, Japan, Australia, India, Brazil, United States, South Africa, Israel



- China's first mass production fast shutdown manufacturer
- Suitable for all string inverters from 1kW to 320kW
- The first domestic supplier of photovoltaic isolation switches that meets the IEC60947-3 (ed.3.2): 2015 standard, and its full range of products have obtained TÜV certificates
- The only Chinese photovoltaic isolation switch supplier with a full range of UL certification
- The sole supplier for photovoltaic isolation switch in the China Guangdong Nuclear Power's procurement's whitelist
- The stable MCB supplier for many energy storage companies such as BYD

International Marketing-Sales continue to grow

Company Sales in the Past Eight Years



- ◆ In the past 3 years, the compound growth rate of sales was **105%**
- ◆ In the past 5 years, production capacity has increased **120%**
- ◆ Sales of **110** million RMB in 2020
- ◆ Sales of **180** million RMB in 2021



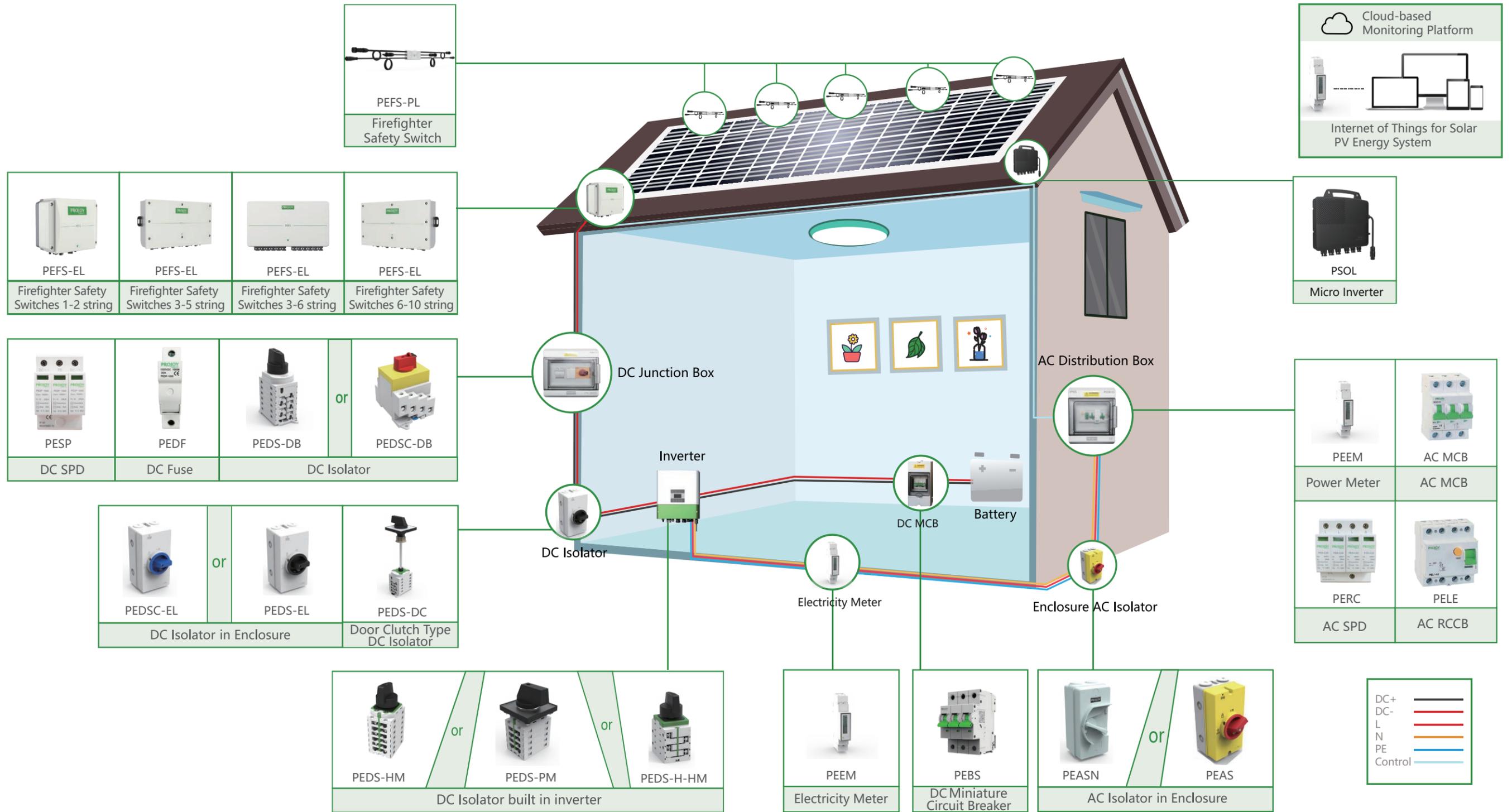
Business Partner

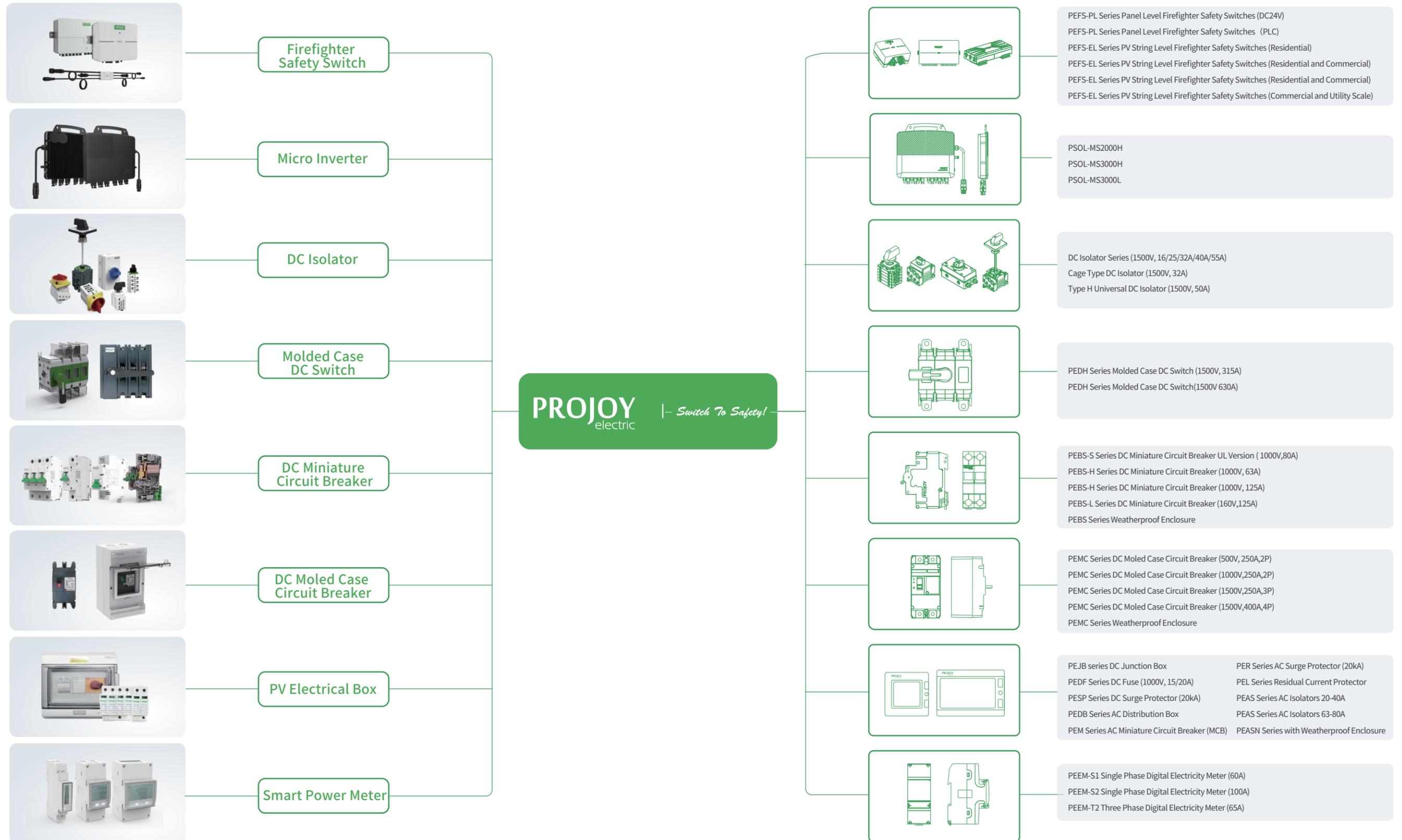


PRODUCT CATALOG

- Complete Range of DC & AC PV Smart Switches 1
- Product Family Tree 3
- Firefighter Safety Switches 5
- Micro Inverter 8
- DC Isolators 10
- Molded Case DC Switch 14
- DC Miniature Circuit Breaker 16
- DC Moled Case Circuit Breaker 18
- PV Electrical Boxes & Accessories 20
- Smart Power Meter 27
- Project Cases 29

Complete Range of DC & AC PV Smart Switches





Firefighter Safety Switches

Features

- Suitable for various photovoltaic systems such as household, industrial and commercial, ground power stations, etc. 1-10 series components can be switched off
- Maximum loop current 55A, maximum loop voltage 1500V
- IP65 protection grade, equipped with waterproof and breathable valve to avoid condensation inside the shell
- Multiple interface types are available (Gland head/MC4 terminal)
- Isolation switch complies with TUV, CE, CB, SAA, UL certification
- Real-time detection of the highest ambient temperature in the shell, when the internal temperature of the array level RSD exceeds 70°C, and the panel level RSD exceeds 85°C, the switch will be automatically cut off
- The panel level RSD meets 2017 NEC 690.12 standard requirements

▶ PEFS-PL Firefighter Safety Switches



PEFS-PL Firefighter Safety Switches (PLC)

One fits One 80V (SUNSPEC protocol)

- ▶ Fire retardant V-0 ▶ 1000/1500Vdc
- ▶ UV resistant materials used ▶ 20A
- ▶ Shutdown temperature in the environment exceeds 85°C



PEFS-PL Firefighter Safety Switches (PLC)

One fits Two 80V (SUNSPEC protocol)

- ▶ Fire retardant V-0 ▶ 1000/1500Vdc
- ▶ UV resistant materials used ▶ 20A
- ▶ Shutdown temperature in the environment exceeds 85°C



PEFS-PL Firefighter Safety Switches(DC 24V)

One fits One 80V

- ▶ Fire retardant V-0 ▶ 1000/1500Vdc
- ▶ UV resistant materials used ▶ 20A
- ▶ Shutdown temperature in the environment exceeds 85°C



PEFS-PL Firefighter Safety Switches(DC 24V)

One fits Two 80V

- ▶ Fire retardant V-0 ▶ 1000/1500Vdc
- ▶ UV resistant materials used ▶ 20A
- ▶ Shutdown temperature in the environment exceeds 85°C



PEFS-PL Firefighter Safety Switches(DC 24V)

One fits Two 120V

- ▶ Fire retardant V-0 ▶ 1000/1500Vdc
- ▶ UV resistant materials used ▶ 20A
- ▶ Shutdown temperature in the environment exceeds 85°C



PEFS-PL Firefighter Safety Switches(DC 24V)

One fits Four 120V

- ▶ Fire retardant V-0 ▶ 1000/1500Vdc
- ▶ UV resistant materials used ▶ 20A
- ▶ Shutdown temperature in the environment exceeds 85°C

► **PEFS-PL Firefighter Safety Switches Controller Box** CE



PEFS-PL

Controller Box

- ▶ With lock / Without lock Optional
- ▶ Input voltage: 100~240Vac;
- ▶ output voltage: 24Vdc;

► **PEFS-EL Firefighter Safety Switches** CE



PEFS-EL

PV String Level Firefighter Safety Switches
(Residential)

- | | |
|--|---------------------|
| ▶ PC+ABS shell is flame-retardant and anti-ultraviolet; | ▶ IP66 |
| ▶ Up to 55A, Up to 1500V DC | ▶ Up to 1-2 strings |
| ▶ Equipped with breathing valve to avoid condensation inside the enclosure | |



PEFS-EL

PV String Level Firefighter Safety Switches
(Residential and Commercial)

- | | |
|--|---------------------|
| ▶ Sheet metal material enclosure | ▶ 1000Vdc |
| ▶ Up to 55A, Up to 1500V DC | ▶ 32A |
| ▶ Equipped with breathing valve to avoid condensation inside the enclosure | ▶ Up to 3-5 strings |



PEFS-EL

PV String Level Firefighter Safety Switches
(Commercial and Utility Scale)

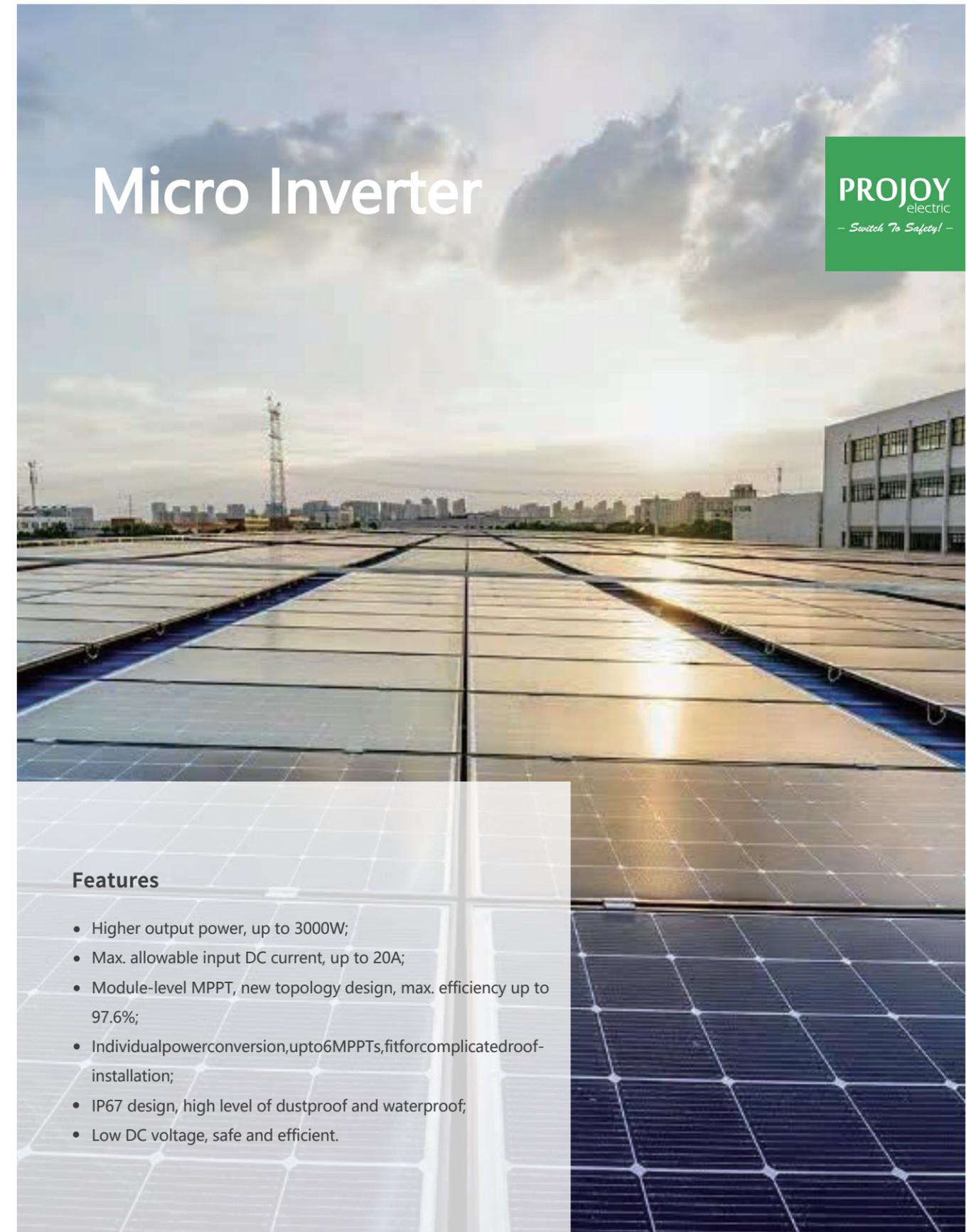
- | | |
|--|----------------------|
| ▶ PC+ABS shell is flame-retardant and anti-ultraviolet; | ▶ 1000Vdc |
| ▶ Up to 55A, Up to 1500V DC | ▶ 32A |
| ▶ Equipped with breathing valve to avoid condensation inside the enclosure | ▶ Up to 6-10 strings |



PEFS-EL (P2)

PV String Level Firefighter Safety Switches
(Generation 2)

- | | |
|--|--------------------------------------|
| ▶ Fire retardant V-0/UV resistant materials | ▶ Quick-plug wiring |
| ▶ Up to 55A, Up to 1500V DC | ▶ IP66 |
| ▶ Clasp design, simple and convenient installation | ▶ 1-2 strings & 3-6 strings optional |



Micro Inverter

Features

- Higher output power, up to 3000W;
- Max. allowable input DC current, up to 20A;
- Module-level MPPT, new topology design, max. efficiency up to 97.6%;
- Individual power conversion, up to 6 MPPTs, fit for complicated roof-installation;
- IP67 design, high level of dustproof and waterproof;
- Low DC voltage, safe and efficient.

▶ **PSOL Micro Inverter**



PSOL-MS2000H

Micro Inverter

- ▶ DC Input 20A
- ▶ AC Output 2000W
- ▶ PV Module: 4pcs
- ▶ Pn: 650W
- ▶ Isc: 18.31A



PSOL-MS3000H

Micro Inverter

- ▶ DC Input 20A
- ▶ AC Output 3000W
- ▶ PV Module: 6pcs
- ▶ Pn: 650W
- ▶ Isc: 18.31A



PSOL-MS3000L

Micro Inverter

- ▶ DC Input 15A
- ▶ AC Output 3000W
- ▶ PV Module: 8pcs
- ▶ Pn: 450W
- ▶ Isc: 11.58A

DC Isolators



Features

- Modular design, DC insulation voltage 1500V, compact structure, 2-10 Pole optional
- Strong installation, good sealing, installation can make the machine as a whole IP66 class
- Convenient wiring, positive and negative contact optional, to meet different installation scenarios
- Highspeed "on - off" switching mechanism, using energy storage spring, fast switching, maximum switching time is less than 5ms
- Contact self-cleaning design, reduce the resistance and energy consumption of DC switch, extend the life of switch
- The imported UL94V-0 flame retardant material can work at full load in the range of -40°C~ +70°C
- Passed IEC/EN60947-3:2009+A1+A2, AS60947.3, UL508I,G-B/T14048.3, with TUV,CE,CB, UL certification

► **PEDS DC Isolators Series | 16-32A**



PEDS HM

Single Hole Mounting Series DC Isolator 16-32A

- ▶ Positive and negative contact optional, matching inverter installation
- ▶ Contact self-cleaning design, extend the life of switch
- ▶ Maximum switching time is less than 5ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1500Vdc
- ◆ Ie:≤32A



PEDS PM

Panel Mounting Series DC Isolator 16-32A

- ▶ Multiple screws fixed, Strong installation
- ▶ Contact self-cleaning design, extend the life of switch
- ▶ Maximum switching time is less than 5ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1500Vdc
- ◆ Ie:≤32A



PEDS DB

Distribution Board Series DC Isolator 16-32A

- ▶ Guide rail installation, Suitable for distribution box installation
- ▶ Contact self-cleaning design, extend the life of switch
- ▶ Maximum switching time is less than 5ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1500Vdc
- ◆ Ie:≤32A



PEDS DC

Door Lock Series DC Isolator 16-32A

- ▶ With door lock function, the length of the lock rod can be customized
- ▶ Contact self-cleaning design, extend the life of switch
- ▶ Maximum switching time is less than 5ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1500Vdc
- ◆ Ie:≤32A



PEDS EL

Enclosure Series DC Isolator 16-32A

- ▶ IP66
- ▶ The knob can be locked to prevent misoperation
- ▶ Maximum switching time is less than 5ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1500Vdc
- ◆ Ie:≤32A

► **PEDS DC Isolators Series | 40-55A**



PEDS HM

Single Hole Mounting Series DC Isolator 40-55A

- ▶ Positive and negative contact optional, matching inverter installation
- ▶ Contact self-cleaning design, extend the life of switch
- ▶ Maximum switching time is less than 5ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1500Vdc
- ◆ Ie:≤55A

► **PEDS DC Isolators Series | 40-55A**



PEDS PM

Panel Mounting Series DC Isolator 40-55A

- ▶ Multiple screws fixed, Strong installation
- ▶ Contact self-cleaning design, extend the life of switch
- ▶ Maximum switching time is less than 5ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1500Vdc
- ◆ Ie:≤55A



PEDS DB

Distribution Board Series DC Isolator 40-55A

- ▶ Guide rail installation, Suitable for distribution box installation
- ▶ Contact self-cleaning design, extend the life of switch
- ▶ Maximum switching time is less than 5ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1500Vdc
- ◆ Ie:≤55A



PEDS DC

Door Lock Series DC Isolator 40-55A

- ▶ With door lock function, the length of the lock rod can be customized
- ▶ Contact self-cleaning design, extend the life of switch
- ▶ Maximum switching time is less than 5ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1500Vdc
- ◆ Ie:≤55A



PEDS EL

Enclosure Series DC Isolator 40-55A

- ▶ IP66
- ▶ The knob can be locked to prevent misoperation
- ▶ Maximum switching time is less than 5ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1500Vdc
- ◆ Ie:≤55A

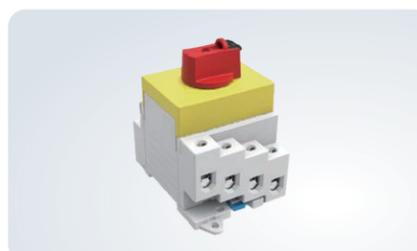
► **PEDSC Cage Type DC Isolators**



PEDSC-PM

Panel Mounting Series DC Isolator

- ▶ parallel wiring, aperture is bigger, install convenient
- ▶ Contact self-cleaning design, extend the life of switch
- ▶ Maximum switching time is less than 3ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1200Vdc
- ◆ Ie:≤32A



PEDSC-DB

Distribution Board Series DC Isolator

- ▶ Guide rail installation Suitable for distribution box installation
- ▶ Contact self-cleaning design, extend the life of switch
- ▶ Maximum switching time is less than 3ms
- ◆ Ui:1500Vdc
- ◆ Ue:≤1200Vdc
- ◆ Ie:≤32A

► PEDSC Cage Type DC Isolators



PEDSC-DC

Door Lock Series DC Isolator

- ▶ With door lock function, the length of the lock rod can be customized
 - ▶ Contact self-cleaning design, extend the life of switch
 - ▶ Maximum switching time is less than 3ms
- ◆ U_i :1500Vdc
 - ◆ U_e :≤1200Vdc
 - ◆ I_e :≤32A



PEDSC-EL

Enclosure Series DC Isolator

- ▶ IP66
 - ▶ The knob can be locked to prevent misoperation
 - ▶ Maximum switching time is less than 3ms
- ◆ U_i :1500Vdc
 - ◆ U_e :≤1200Vdc
 - ◆ I_e :≤32A

► PEDS-H DC Isolators Series | 1500V,50A



PEDH-DB

Molded Case DC Switch

- ▶ Double breakpoint arc extinguishing, effectively improve the breaking capacity
 - ▶ Modular design, compact structure
 - ▶ Face mask design, to enhance security
- ◆ U_i :1500Vdc
 - ◆ U_e :1000/1500Vdc
 - ◆ I_e :≤630A



PEDSH-DB

Distribution Board Series DC Isolator

- ▶ Guide rail installation Suitable for distribution box installation
 - ▶ Contact self-cleaning design, extend the life of switch
 - ▶ Maximum switching time is less than 5ms
- ◆ U_i :1500Vdc
 - ◆ U_e :≤1500Vdc
 - ◆ I_e :≤50A



PEDSH-DC

Door Lock Series DC Isolator

- ▶ With door lock function, the length of the lock rod can be customized
 - ▶ Contact self-cleaning design, extend the life of switch
 - ▶ Maximum switching time is less than 5ms
- ◆ U_i :1500Vdc
 - ◆ U_e :≤1500Vdc
 - ◆ I_e :≤50A

Molded Case DC Switch

Features

- Safer, UL94V-0 grade flame retardant material used, arc extinguishes within 3ms
- Non - polarity design makes installation easier
- Competitive volume: 1500V/315A, 1500V/630A
- Excellent performance, double breakpoint of arc extinguishing, DC-PV2 passed
- High quality material used, temperature, corrosion, impact resistance
- -40°C~+85°C, wider range to suit different application scenarios
- Fully certified, TUV, Australia TUV, CE, CB, SAA

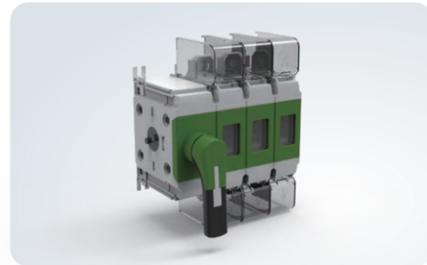
► **PEDH Molded Case DC Switch | 315A**



PEDH-DC

Molded Case DC Switch

- ▶ Double breakpoint arc extinguishing, effectively improve the breaking capacity
- ▶ Modular design, compact structure
- ▶ Face mask design, to enhance security
- ◆ Ui:1500Vdc
- ◆ Ue:1000/1500Vdc
- ◆ Ie:100-315A



PEDH-DB

Molded Case DC Switch

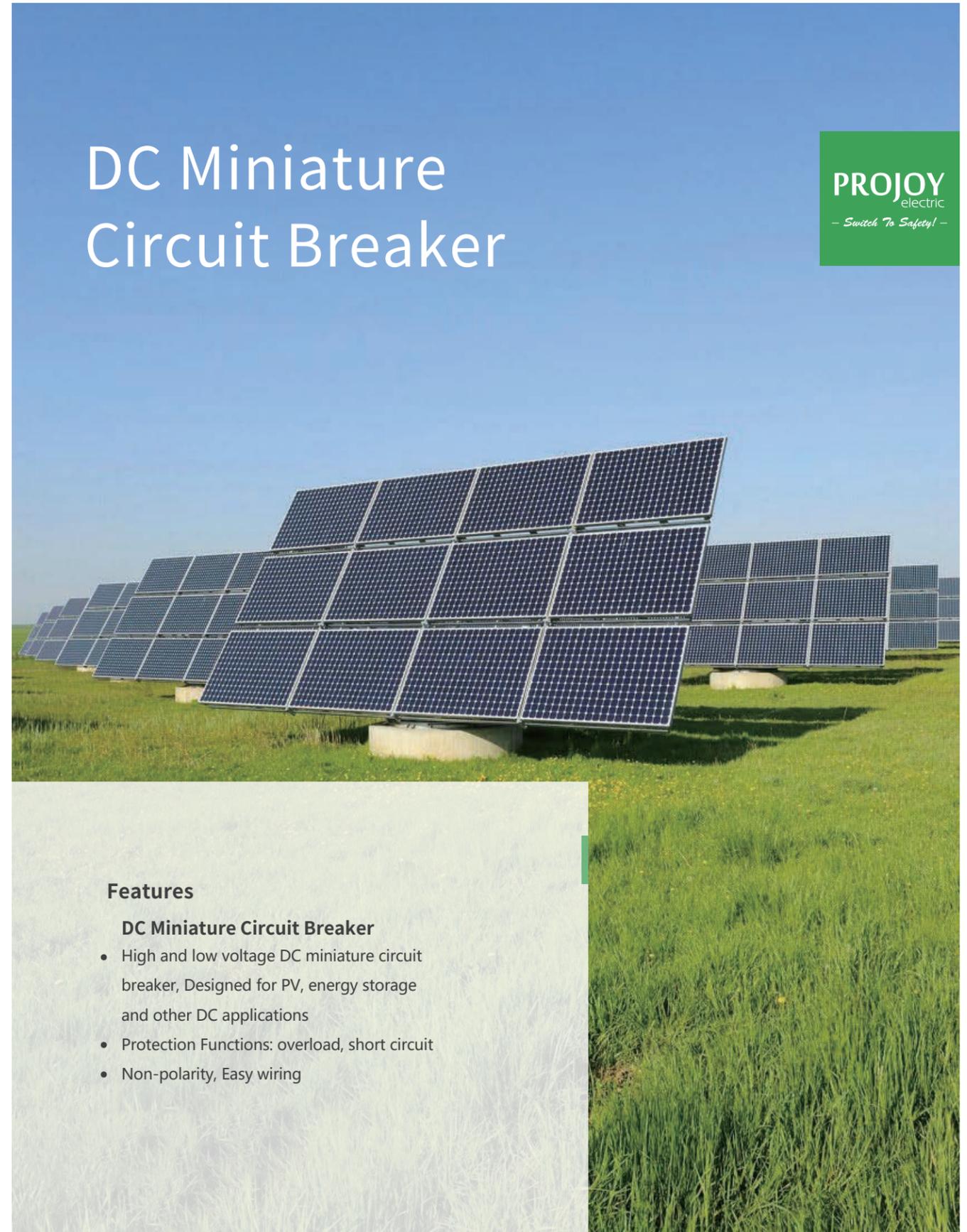
- ▶ Double breakpoint arc extinguishing, effectively improve the breaking capacity
- ▶ Modular design, compact structure
- ▶ Face mask design, to enhance security
- ◆ Ui:1500Vdc
- ◆ Ue:1000/1500Vdc
- ◆ Ie:100-315AA



PEDH-DB

Molded Case DC Switch

- ▶ Double breakpoint arc extinguishing, effectively improve the breaking capacity
- ▶ Modular design, compact structure
- ▶ Face mask design, to enhance security
- ◆ Ui:1500Vdc
- ◆ Ue:1000/1500Vdc
- ◆ Ie:100~630A



DC Miniature Circuit Breaker

Features

DC Miniature Circuit Breaker

- High and low voltage DC miniature circuit breaker, Designed for PV, energy storage and other DC applications
- Protection Functions: overload, short circuit
- Non-polarity, Easy wiring

▶ **PEBS-H DC Miniature Circuit Breaker**



PEBS-S

DC Miniature Circuit Breaker (63A)

- ▶ Non-polarity bidirectional protection circuit
- ▶ Protection Functions: overload, short circuit,
- ▶ Rated short circuit breaking capacity Icu up to 6 kA
- ◆ Ui:1000Vdc
- ◆ Ue:250/500/750/1000Vdc
- ◆ In:≤63A



PEBS-H

DC Miniature Circuit Breaker (63A)

- ▶ Non-polarity bidirectional protection circuit
- ▶ Protection Functions: overload, short circuit,
- ▶ Rated short circuit breaking capacity Icu up to 6 kA
- ◆ Ui:1000Vdc
- ◆ Ue:250/500/750/1000Vdc
- ◆ In:≤63A



PEBS-H

DC Miniature Circuit Breaker (125A)

- ▶ Non-polarity bidirectional protection circuit
- ▶ Protection Functions: overload, short circuit,
- ▶ Rated short circuit breaking capacity Icu up to 6 kA
- ◆ Ui:1000Vdc
- ◆ Ue:250/500/750/1000Vdc
- ◆ In:≤125A



PEBS

Weatherproof Enclosure

- ▶ 100% PC Enclosure in Series
- ▶ Flame Retardant PC Enclosure, UV Resistance Protection
- ▶ Customizable

▶ **PEBS-L DC Miniature Circuit Breaker**



PEBS-L

DC Miniature Circuit Breaker

- ▶ Non-polarity bidirectional protection circuit
- ▶ Protection Functions: overload, short circuit,
- ▶ Rated short circuit breaking capacity Icu up to 10 kA
- ◆ Ui:500Vdc
- ◆ Ue:80/160Vdc
- ◆ In:≤125A

PROJOY
electric
– Switch To Safety! –

DC Molded Case Circuit Breaker

Features

- Small volume, 1500V/315A, 1500V/630A
- Non - polarity design makes installation easier
- Safer, UL94V-0 grade flame retardant material used, arc extinguishes within 3ms
- Unique arc extinguishing design, short arc flying
- High quality material used, temperature, corrosion, impact resistance
- Fully certified, TUV, CE, CB, SAA

► **PEMC** DC Molded Case Circuit Breaker



PEMC
Molded Case DC Circuit Breaker (500V, 250A, 2P)

- Non-polarity bidirectional protection circuit
 - Protection Functions: overload, short circuit,
 - Compact design and compact structure; Zero flying arc
- ◆ Ui:500Vdc
 - ◆ Ue:500Vdc
 - ◆ In: ≤250A



PEMC
Molded Case DC Circuit Breaker (1000V, 250A, 2P)

- Non-polarity bidirectional protection circuit
 - Protection Functions: overload, short circuit,
 - Compact design and compact structure; Zero flying arc
- ◆ Ui:1000Vdc
 - ◆ Ue:1000Vdc
 - ◆ In: ≤250A



PEMC
Molded Case DC Circuit Breaker (1500V, 250A, 3P)

- Non-polarity bidirectional protection circuit
 - Protection Functions: overload, short circuit,
 - Compact design and compact structure; Zero flying arc
- ◆ Ui:1500Vdc
 - ◆ Ue:1500Vdc
 - ◆ In: ≤250A



PEMC
Molded Case DC Circuit Breaker (1500V, 250A, 4P)

- Non-polarity bidirectional protection circuit
 - Protection Functions: overload, short circuit,
 - Compact design and compact structure; Zero flying arc
- ◆ Ui:1500Vdc
 - ◆ Ue:1500Vdc
 - ◆ In: ≤400A



PEMC
Molded Case DC Circuit Breaker

- 100% PC Enclosure in Series
- Flame Retardant PC Enclosure, UV Resistance Protection
- Customizable



– Switch To Safety! –

PV Electrical Boxes & Accessories

Features

Distribution Box

- Suitable for household and industrial and commercial photovoltaic power generation systems
- Maximum for 20kW three-phase photovoltaic power generation system
- Meet customer customization requirements
- IP65

PEAS AC Isolators

- Special silver alloy contact, long electrical life, high reliability
- Small size, save installation space
- It has a structure to protect the fingers and operate safely
- Multiple installation methods: Panels, Door Clutch, Distribution Board, Screws, Enclosure installation, etc.
- IP66
- Products through CE, TUV certification

AC Surge Protector

- 2/3/4 Pole optional
- High-energy surge protection, standard modular installation
- Built-in instantaneous overcurrent circuit breaker, pluggable and replaceable modules
- Single module maximum discharge current 40KA (8/20μs)

DC Surge Protector

- PESP is a special surge protector for Photovoltaic DC side. Widely used in photovoltaic power systems, such as a variety of junction boxes, inverters, AC-DC cabinets, DC screens and other important and vulnerable to lightning DC equipment. The Products integrated isolation and short circuit protection device, so that the protection module can be safe electrical isolation, prevent dc arc caused by fire hazards. The fault-proof Y-type circuit can prevent the damage caused by electrical insulation fault to the surge protector, and can replace the protection module safely, without arc-pulling phenomenon. Protect against indirect or direct lightning effects or other transient overvoltages.

▶ PEJB DC Junction Box

CE



PEJB-1-1

DC Junction Box

- ▶ PC+ABS shell is flame-retardant and anti-ultraviolet;
- ▶ Suitable for 1 string input 1 string output PV system
- ▶ IP65
- ▶ 1500Vdc
- ▶ 32A



PEJB-2-1

DC Junction Box

- ▶ PC+ABS shell is flame-retardant and anti-ultraviolet;
- ▶ Suitable for 2 string input 1 string output PV system
- ▶ IP65
- ▶ 1500Vdc
- ▶ 32A



PEJB-3-1

DC Junction Box

- ▶ PC+ABS shell is flame-retardant and anti-ultraviolet;
- ▶ Suitable for 3 string input 1 string output PV system
- ▶ IP65
- ▶ 1500Vdc
- ▶ 32A



PEJB-2-2

DC Junction Box

- ▶ PC+ABS shell is flame-retardant and anti-ultraviolet;
- ▶ Suitable for 2 string input 2 string output PV system
- ▶ IP65
- ▶ 1500Vdc
- ▶ 32A

▶ PEDF DC Fuse

CE



PEDF-1000

Fuse For PV

- ▶ Ie: ≤30A;
- ▶ It is safer to replace the fuse;
- ▶ Optional indicator;
- ▶ 1000Vdc

▶ PEDF DC Fuse

CE



PEDF-1500

Fuse For PV

- ▶ Ie: ≤30A;
- ▶ It is safer to replace the fuse;
- ▶ Optional indicator;
- ▶ 1500Vdc

▶ PESP DC Surge Protector | Type2 / Type 1+2

CE



PESP600

DC Surge Protector (Type2 / Type 1+2)

- ▶ The maximum discharge current can reach 40 kA;
- ▶ T2 type/T1+T2 type for photovoltaic;
- ▶ Communication is optional;
- ▶ 600Vdc



PESP1000

DC Surge Protector (Type2 / Type 1+2)

- ▶ The maximum discharge current can reach 40 kA;
- ▶ T2 type/T1+T2 type for photovoltaic;
- ▶ Communication is optional;
- ▶ 1000Vdc



PESP1500

DC Surge Protector (Type2 / Type 1+2)

- ▶ The maximum discharge current can reach 40 kA;
- ▶ T2 type/T1+T2 type for photovoltaic;
- ▶ Communication is optional;
- ▶ 1500Vdc

► PEDB AC Distribution Box

CE



PEDB-S3

AC Distribution Box

- ▶ PC+ABS shell is flame-retardant and anti-ultraviolet;
- ▶ IP65
- ▶ 3kW
- ▶ 230Vac
- ▶ 16A



PEDB-S6

AC Distribution Box

- ▶ PC+ABS shell is flame-retardant and anti-ultraviolet;
- ▶ IP65
- ▶ 6kW
- ▶ 230Vac
- ▶ 32A



PEDB-T10

AC Distribution Box

- ▶ PC+ABS shell is flame-retardant and anti-ultraviolet;
- ▶ IP65
- ▶ 10kW
- ▶ 400Vac
- ▶ 20A

► PEM AC Miniature Circuit Breaker

CB CE SAS



PEM1-32

AC Miniature Circuit Breaker

- ▶ Short circuit protection and overload protection
- ▶ 1P+N;
- ▶ 50/60Hz
- ▶ Ui:500Vac
- ▶ Ue:230Vac
- ▶ In:6~32A



PEM1-63

AC Miniature Circuit Breaker

- ▶ Short circuit protection and overload protection
- ▶ Rated breaking capacity 10kA
- ▶ 50/60Hz
- ▶ Ui:500Vac
- ▶ Ue:230/240/400/415Vac
- ▶ In:1~63A

► PEM AC Miniature Circuit Breaker

CB CE SAS



PEM2-63

AC Miniature Circuit Breaker

- ▶ Short circuit protection and overload protection
- ▶ Rated breaking capacity 6kA
- ▶ 50/60Hz
- ▶ Ui:500Vac
- ▶ Ue:230/240/400/415Vac
- ▶ In:1~63A

► PEL Residual Current Protector

CE



PEL1-63

Residual Current Protector

- ▶ Electronic/electromagnetic optional;
- ▶ A type / AC type optional
- ▶ 50/60Hz
- ▶ 2P/4P
- ▶ Action current: 10/30/100/300mA

► PER AC Surge Protector

CE



PER-C20

AC Surge Protector

- ▶ Maximum discharge current 20-80kA;
- ▶ T2 type for photovoltaic;
- ▶ Pluggable and replaceable modules;
- ▶ 4P

▶ **PEAS AC Isolators Series | 20-40A**



PEAS69-PM

Panel Mounting Series AC Isolator

- ▶ Small size, save installation space
- ▶ Long electrical life, high reliability
- ▶ Multiple screws are fixed, the installation is firm
- Ui:690Vac
- Ue:415Vac
- Ie:16/20/25/32A



PEAS69-LK

Distribution Board Series AC Isolator 20-40A

- ▶ Small size, save installation space
- ▶ Long electrical life, high reliability
- ▶ Guide rail installation Suitable for distribution box installation
- Ui:690Vac
- Ue:415Vac
- Ie:16/20/25/32A



PEAS69-DC

DC Door Lock Series AC Isolator 20-40A

- ▶ Small size, save installation space
- ▶ Long electrical life, high reliability
- ▶ With door lock function, the length of the lock rod can be customized
- Ui:690Vac
- Ue:415Vac
- Ie:16/20/25/32A



PEAS69-EL

Enclosure Series AC Isolator 20-40A

- ▶ Small size, save installation space
- ▶ Long electrical life, high reliability
- ▶ IP66
- Ui:690Vac
- Ue:415Vac
- Ie:16/20/25/32A

▶ **PEAS AC Isolators Series | 60-80A**



PEAS69-PM

Panel Mounting Series AC Isolator 63-80A

- ▶ Small size, save installation space
- ▶ Long electrical life, high reliability
- ▶ Multiple screws are fixed, the installation is firm
- Ui:690Vac
- Ue:415Vac
- Ie: ≤45A

▶ **PEAS AC Isolators Series | 60-80A**



PEAS69-LK

Distribution Board Series AC Isolator 63-80A

- ▶ Small size, save installation space
- ▶ Long electrical life, high reliability
- ▶ Guide rail installation Suitable for distribution box installation
- Ui:690Vac
- Ue:415Vac
- Ie: ≤45A



PEAS69-DC

Door Lock Series AC Isolator 63-80A

- ▶ Small size, save installation space
- ▶ Long electrical life, high reliability
- ▶ With door lock function, the length of the lock rod can be customized
- Ui:690Vac
- Ue:415Vac
- Ie: ≤45A



PEAS69-EL

Enclosure Series AC Isolator 63-80A

- ▶ Small size, save installation space
- ▶ Long electrical life, high reliability
- ▶ IP66
- Ui:690Vac
- Ue:415Vac
- Ie: ≤45A

▶ **PEASN Weatherproof AC Isolators**



PEAS50-EL20-N

Weatherproof AC Isolator

- ▶ Small size, save installation space
- ▶ Long electrical life, high reliability
- ▶ IP66
- Ui:500Vac
- Ue:250/440Vac
- Ie:20A



PEAS50-EL35-N

Weatherproof AC Isolator

- ▶ Small size, save installation space
- ▶ Long electrical life, high reliability
- ▶ IP66
- Ui:500Vac
- Ue:250/440Vac
- Ie:35A



PEAS50-EL63-N

Weatherproof AC Isolator

- ▶ Small size, save installation space
- ▶ Long electrical life, high reliability
- ▶ IP66
- Ui:500Vac
- Ue:250/440Vac
- Ie:63A

Smart Power Meter

PROJOY
electric
– Switch To Safety! –

Features

- Provides real-time data for balancing electric loads.
- Voltage, current, frequency, active power, reactive power, etc. can be easily read from the LCD screen.
- Bi-directional measuring.
- Standard DIN rail 35mm.
- With RS485 interface and ModBus/RTU communication protocol for networking.
- Stored data is safe at power loss.

▶ PEEM Smart Power Meter

CE



PEEM-S1

Single Phase Digital Electricity Meter

- ▶ Provides real-time data for balancing electric loads
- ▶ Standard DIN rail 35mm
- ▶ 220Vac/60A
- ▶ Bi-directional measuring
- With RS485 interface and ModBus



PEEM-S2

Single Phase Digital Electricity Meter

- ▶ Provides real-time data for balancing electric loads
- ▶ Standard DIN rail 35mm
- ▶ 220Vac/100A
- ▶ Bi-directional measuring
- With RS485 interface and ModBus



PEEM-T2

Three Phase Digital Electricity Meter

- ▶ Provides real-time data for balancing electric loads
- ▶ Standard DIN rail 35mm
- ▶ 380Vac/65A
- ▶ Bi-directional measuring
- With RS485 interface and ModBus



Project Cases

Netherlands PROJOY PV Electrical BOX



Brazil PROJOY DC Isolators



Ireland PROJOY Firefighter Safety Switches



China BYD PROJOY DC Miniature Circuit Breaker



Spain PROJOY Firefighter Safety Switches



Australia PROJOY Enclosure Series DC Isolator



Poland PROJOY Firefighter Safety Switches



Australia PROJOY Enclosure Series DC Isolator



Brazil PROJOY DC Isolators



Brazil PROJOY DC Isolators



Brazil PROJOY DC Isolators



Brazil PROJOY DC Isolators

