COMPANY PROFILE

PROJOY ELECTRIC SRL is an electrical equipment manufacturer committed to supplying high-voltage and low-voltage DC switches, intelligent components and intelligent sensors for energy conversion equipment and intelligent energy management. Headquartered in Milan, Italy, Projoy Electric has three R & D centres (Milan, Italy; Suzhou, China; Xiamen, China) and subsidiaries in several countries including Italy, UK and China, to meet the increasing international demand.

The products of Projoy Electric are applied in the areas such as energy power supply equipment (photovoltaic grid inverters, photovoltaic off-grid inverters, photovoltaic energy storage inverters, photovoltaic pump controller, etc.), intelligent management of household power supply (intelligent home energy monitoring, storage and rational use), intelligent management of domestic appliances and smart grids.

Projoy is joined by the most professional R&D team in electrical and intelligent power supply applications and has electrical product series of completely independent intellectual property rights and a number of the core patents on internal PV DC switches, external PV DC switches, various intelligent components, smart sensor components and so on. Technologies have leading in the world. Multiple international certifications, including UL and CSA in North America, CE certification, globally recognized CB certification, Sweden Nemko certification, Australia SAA certification, Germany VDE certification and China CCC certification have been awarded to Projoy Electric products. External PV DC switch products have been exported to the UK, Australia, France and Italy. In China, the internal PV switch has become components of products from well-known Chinese photovoltaic inverter manufacturers Huawei and Hefei Sungrow.

Projoy Electric employs advanced production equipment and sophisticated testing equipment and constantly introduces advancement in the production procedures and skilled personnel, thereby ensuring manufacturing and quality control. She has an experienced and professional team of international marketing and service, adhering to the localized marketing service concept, to correctly grasp market trends and customer demands.

Projoy Electric will continue with professional, intelligent, modularized product development and constantly promote the product range. With the capable and shrewd administration and management team, the globally competitive essential technology, advanced production equipment and sophisticated testing equipment and mature international market channels, Projoy Electric is world and illuminating the future.
A Photovoltaic string: a serial circuit string of PV modules which can completely protect environmental damage.

A Photovoltaic module: the smallest unit of PV panels, which generates a specific output voltage.

A PV array: a unit consisting of PV chains mechanically and electrically combined with other components that produce direct current units.

A PV combiner box: a box where all PV arrays are electrically connected and any protective equipment for all PV can be placed.

A PV generation device: a collection of photovoltaic power generation, also known as the photovoltaic field.

Photovoltaic conversion equipment: DC to AC conversion settings, also called inverters.

Standard test conditions (STC): the standard conditions of the photovoltaic cells and modules specified in IEC 61215 and IEC 61646.

Open circuit voltage VocSTC: the terminal voltage of the DC side of photovoltaic modules, photovoltaic chains, PV arrays without load of PV, or photovoltaic conversion device under standard testing.

Short circuit current IocSTC: the short-circuit current of the photovoltaic modules, strings, arrays or power plants under standard testing.

Maximum reverse current IRM: the maximum reverse current the module can withstand without any damage, whose value is provided by the manufacturer.

Note 1: This value has nothing to do with the current diversion diodes can withstand and is a normal current in the reverse direction of the photovoltaic cells.

Note 2: VocSTC maximum power point (MPPT) of the module whose typical crystalline silicon is 2 to 2.6 times as its name indicates (maximum power point tracking). In principle can track the MPPT of non-linear power generation devices, such as photovoltaic generation units. MPPT or MPPTS usually indicates that an inverter under efficient illumination, through matching the load characteristics to the characteristics of PV devices, achieve optimal use of solar energy.

AC .................................................... Alternating Current
DC .......................................................... Direct Current
Io ................................................... Rated Operational Current
Isc .................................................. Short-Circuit Current
Ith .................................................. Thermal Current
MPPT ............................................... Maximum Power Point Tracking
PV .................................................. Photovoltaic
Voc .................................................. Open-Circuit Voltage
Impp .................................................. MPPT Electric current
AC-21 ............................................... Switching of resistive loads, including moderate overloads
AC-22 ............................................... Switching of mixed resistive and inductive loads, including moderate overloads
DC-21 ............................................... Switching of resistive loads, including moderate overloads
DC-22 ............................................... Switching of mixed resistive and inductive loads, including moderate overloads

Switch disconnector: a mechanical switching device that meets the requirements for utilisation as both a switch and a disconnector, so it can be used to make and break current whilst also giving on-load isolation.
Interacts with a Spring Mechanism

Independent Switching Action Interacts with a Spring Mechanism

Compare to the linear motion in the AC contactor, ProJoy DC isolator adopts rotation switching structure. Switch button has no direct connection with strings, so the operator's turning speed and strength will not influence the strings movement directly and further will not influence the switch from ON to OFF or from OFF to ON. There is a energy storage part inside the switch. When operating the button manually, the spring collects energy and active the "hijack" in a certain angle, the movable spring will be folded immediately and accomplish the switching process, which takes only 5ms while AC contactor takes around 100ms. Shorter switching time contributes to a shorter arcing time length, which improve the physical properties and contact properties of the contact pairs.

Stringent Electrical Specification

1. Working voltage can be as high as 1500V
2. Working current can be as high as 58A
3. Level 2-12 design, can satisfied inverter with 6 MPPT tracking design maximum.
5. With high conduction copper, activities and wire contact point is copper plate zinc.

Reduce and Extinguish the Arc Effects

Reduce and Extinguish the Arc Effects. It is inevitable to produce arc when the isolator is switched, moreover, the arc of DC isolator is stronger and more persistent. Design of structure of contact pairs and improvement of speed of isolator switch can reduce the produce and existing time of arc, structure design of blade spring also have advantage as follow:

1. Self-cleaning contact design, as using revolving contact mode, contact pairs revolve when touching so that touch area can be scrub clean, this design can clean the dirt produced by arc, keeping the renew of the contact, ensuring the function of contact.
2. Arc occur area is not coincide with contact area. Socket of movable spring structure and edge type static spring structure, arc is produced on the socket of movable spring and the edge of static spring so that the arc will not be produced in the middle of contact area, so that the arc influence less to the conduction, to avoid contact pairs heat increase quickly caused by contact area burn and resistance increase.

Flexible Wiring

1. Built-in jumper, convenient for series and parallel wiring, saving space, more beautiful.
2. Space wiring, easy to fixed.
3. 45°angle design for terminal with different face-con contact, making sure AC isolator can be wired in small space.
4. 3 levels of installation options: sitting installation, the outer panel 2-hole mounting, the inner 4-hole mounting.

Anti-misoperation Design

1. Possible to choose padlock or gate lock to avoid disoperation.
2. On/Off position is different from the limit of isolator way, to avoid the disoperation caused by not sure the situation of isolator.

Hight Protection Level

1. Built-in isolator, adding soft gasket after the installation of panel, adding mechanical static structure on the rotate. installing seal rings on the screw which is installed on the panel, installing in the case so that the protection level can get IP65, moreover, the seal rings ensure the sullideness of isolator.
2. External isolator, with mechanical isolator between shell and revolving button rotate (patent)surrounded by stainless steel screw, with internal spring slots between revolving button and moveaxle, ensuring IP65 protection for the hole of enclosure DC isolator.
3. There are 3 kinds of installation options: sitting installation, the outer panel 2-hole mounting, the inner 4-hole mounting.

Strong Environment Adaptability

1. Enough space for external isolator make sure it can work well with the environment of 25{}^\circ{}C/-70{}^\circ{}C, the build-in isolator can also work with this environment.
2. 1500V insulation voltage testing standard, available to use safety in the AC system as high as 1500V, satisfied over and under voltage I-V standard, and pollution standard level 2.
APPLICATIONS FOR INDUSTRY

Photovoltaic devices
With the rapid development of the solar industry, the number of large capacity solar power plants is increasing, and so such power plants require more and more strictly on the performance of control and protection equipment.

When the power of a PV plant reach a certain level, a circuit breaker or disconnecting switch is needed. Especially, for protective isolation of an inverter, the requirements on low-voltage components are higher.

Wind power
Wind power is growing to a boom in the world. It does not require the use of fuel, nor does it produce radiation or air pollution. DC switches developed by Projoy are wide in the applicable voltage band and hence can be widely used in wind power generation and distribution systems.

The energy storage device
Application of energy storage technology in the photovoltaic power generation system provides the feasible solution to adverse effects of photovoltaic power generation on the power grid, and brings in economical benefit to both in the user end and in the grid end. PV DC switches, as an important protection device in the application system, directly affect the safe and reliable operation of PV systems.

The power transmission (direct current transmission ...)
Since the 1980s, the pace of development of power transmission technology has accelerated evidently. Direct current transmission has great practical significance to improving the transmission capacity of the existing transmission systems and exploiting the potential of the existing equipment. Its implement can have a significant impact. DC voltage solutions provided by Projoy can meet customer needs in this area.

Electric traction
Electric traction is a means of traction where the electricity serves as power of a locomotive, mainly applied in track transport systems such as railways, urban transport and underground track. Since the operations of track transport systems relate to the safety of thousands of passengers, the safety and reliability of the whole system must be ever improved. Projoy offers a full range of products and solutions to the protection of the master drive system and the lighting system of electric locomotives.

PV POWER PLANT SYSTEM SOLUTION DIAGRAM

Overall equipment of a solar photovoltaic power plant consists of solar trackers, DC combiner boxes, DC cabinets, the inversion system, the measurement and monitoring system, the AC power distribution and grid-tying systems. Projoy provides a complete range products specially design for PV usage to help reduce investment costs, to simplify the project construction and to provide equipment reliability while simplifying operations, reducing risk, and providing long-term and rapid service support.
ISOLATOR POSITION IN THE SYSTEM

For 1MPPT single-phase inverter (1-3.6kW)

For 2MPPT single-phase inverter (3-6kW)

For 2MPPT three-phase inverter (6-20kW)

For multi-MPPT inverter, controlled individually

PV Arrays
DC Isolator
Inverter
AC Isolator

PV Arrays
DC Isolator
Inverter
AC Isolator

PV Arrays
DC Isolator
Inverter
AC Isolator

PV Arrays
DC Isolator
Inverter
AC Isolator

PV Arrays
DC Isolator
Inverter
AC Isolator

PV Arrays
DC Isolator
Inverter
AC Isolator

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# Single Hole Mounting DC Isolator

**PEDS150R-HM-X**

**FEATURES**

- **Compact structure, modular design, level 2-8 with different versions are available, satisfied to the need of different situations.**

- **Single hole is easy to install with knock-out design, use import seal component to make sure that the installation machine is available to reach IP6 standard.**

- **Incorporating a user independent switching action, spring mechanism, to ensure a very fast break/make action which means the disconnection of the lead circuits and suppression of the arc is normally extinguished in a maximum of 5ms.**

- **Double arc extinguishing mechanism, magnetic and arc chutes, restrain the arc efficiency especially DC arc.**

- **SAFE/LOCK with three rotational positions reducing the risks of tampering.**

- **Class B electrical nominal, stronger overload capacity, over-voltage III, and Pollution degree II.**

- **Rated DC voltage is 1500V, with international certifications like IEC60947-3, UL508,GB14048.3 etc.**

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## TECHNICAL DATA

### PEDS150R-HM-X

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</table>

### MODEL DESIGNATION MEANING

- **LED Actuator Lockable Optional**
- **Level Current 10A**
- **single hole mounting**
- **Reversal Contacts Optional**
- **Rated Insulation Voltage 1500V**
- **PROJOY Electric DC Switch**

### PRODUCT DIMENSIONS

<table>
<thead>
<tr>
<th>CONTACT CONFIGURATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTACT CONFIGURATION</td>
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**Switch to Safety**

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**TECHNICAL DATA**

PEDS150R-PM-X

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<th>Data according to IEC60947-3 (ed.3.2):2015, Utilization category DC-PV0/DC-PV1.</th>
<th>Poles in series</th>
<th>No. of Poles</th>
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<th>Contact Configuration</th>
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<td>58</td>
<td>58</td>
<td>45</td>
<td>40</td>
<td>32</td>
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</table>

Rated DC voltage is 1500V, with international certifications like IEC60947-3, UL508, GB14048.3 etc.

#### Main Parameters

- **Rated Insulation Voltage**: 1500V
- **Rated Thermal Current**: 16A
- **Rotary Lockable**: Optional
- **Rated Insulation Current (1s)**: 2.4
- **Rated Thermal Current (1s)**: 9
- **Rated Insulation Voltage**: 1500V
- **Rated Insulation Voltage (at 20°C)**: 1500V
- **Rated Insulation Voltage (at 70°C)**: 900V
- **Rated Insulation Voltage (at 70°C)**: 3000V
- **Rated Insulation Voltage (at 70°C)**: 5000V
- **Rated Insulation Voltage (at 70°C)**: 10000V

#### Technical Data

- **Rated Input Voltage**: 1500V
- **Rated Current**: 16A
- **Rated Input Current**: 16A
- **Rated Insulation Voltage**: 1500V
- **Rated Insulation Voltage (at 20°C)**: 1500V
- **Rated Insulation Voltage (at 70°C)**: 900V
- **Rated Insulation Voltage (at 70°C)**: 3000V
- **Rated Insulation Voltage (at 70°C)**: 5000V
- **Rated Insulation Voltage (at 70°C)**: 10000V

#### Model Designation Meaning

- **P**: Pedestal
- **M**: Mounting
- **D**: DC
- **S**: Switch
- **A**: Auxiliary
- **X**: Option

#### Panel Mounting DC Isolator

- **Rated Insulation Voltage**: 1500V
- **Rated Thermal Current**: 16A
- **Rotary Lockable**: Optional

#### Features

- **Compactly structured, modularly designed, models with a number of 2-8 poles are available, meeting the demands of different scenarios.**
- **The panel mounting mode ensures the solid installation, with a special sealing design and sealing parts from world's leading manufacturers, and makes sure that the application mounted to panels, IP54 standards.**
- **A high speed breakmakre action is adopted using potential building a prongs where when the potential gets to a triggering point before manual operation of the handle reaches the shift (position) achieved is a rapid status change and the action time of breaking/making is less than 5ms.**
- **The mounting panel measures 48mm2, taking a small area on the base of the inverter or as such, more convenient for multiple terminals installation.**
- **The switch adopts flame resistant material with a insulation grade UL 94V0, so that they can work under full load in ambient temperatures of -40°C to 70°C.**

#### Product Dimensions

- **Rated DC voltage is 1500V, with international certifications like IEC60947-3, UL508, GB14048.3 etc.**
DISTRIBUTION BOARD DC ISOLATOR

**PedS150-Db-X**

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**Features**

- Drop-out and base mounting variants are available at the control box.
- The control box and the contact box, with sealing parts from world’s leading manufacturers and so they achieve a grade of IP65.
- A high speed break noises section is adopted using potential-building springs where the potential gets to a triggering point (before manual operation of the handle reaches the shift position) achieves a rapid lethal change and the action time of break-making is less than 3 ms.
- Imposed design of the control switch, increases the interface of contact, improves the roughness of the surface, ensuring a high performance when contacts are from separate to touching or from touching to separate.
- The torque of the switch is in theory to operate and exceed the cable terminal match terminal to exposed cable terminal.
- SAFEGUARD in three rotational positions is available, reducing the risk of mis-operation.
- A DC voltage Rating of 1600V is designed, awarded a number of international certifications such as IEC 60947-3.

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**Technical Data**

**PedS150r-D816-X**

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<thead>
<tr>
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<th>DCB5</th>
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<tr>
<td>Rated short-circuit current</td>
<td>80 A</td>
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<td>500 A</td>
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<tr>
<td>Rated thermal voltage</td>
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<td>1000 V</td>
<td>1000 V</td>
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<tr>
<td>T. Tightening torques terminals (Nm)</td>
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<td>1.5+2.5</td>
<td>3.0+4.0</td>
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<tr>
<td>Max. thread size</td>
<td>M3</td>
<td>M3</td>
<td>M3</td>
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<tr>
<td>Rated insulation voltage</td>
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<td>1500 V</td>
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**Configuration**

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<tbody>
<tr>
<td>Number of poles</td>
<td>16 A</td>
<td>25 A</td>
<td>50 A</td>
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<td>T. T. T. (Nm)</td>
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<tr>
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<td>M3</td>
<td>M3</td>
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<tr>
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<td>4</td>
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</tr>
<tr>
<td>No. of pole</td>
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<tr>
<td>No. of coil</td>
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<td>No. of coil (Nm)</td>
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<td>3.0+4.0</td>
<td>5.0+6.0</td>
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</table>

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**Product Dimensions**

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**Model Designation Meaning**

- 2, 4, 6, 8 poles optional
- Level: Actuator Lockable Optional
- Rated Thermal Current Distribution Board Rated Insulation Voltage 1500V PROJOY Electric DC Switch

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**Group**

- PEDS150-DB16-3
- PEDS150-DB32-4
- PEDS150-DB32-4
- PEDS150-DB32-4
- PEDS150-DB32-4
- PEDS150-DB32-4
- PEDS150-DB32-4
# Door Clutch DC Isolator

**PEDS150-DC-X**

### Features
- The structure is compact, saving space. Base Mounting and Panel Mounting enable a firm installation.
- Models optional with a number of 2-8 poles are available.
- The switch is also applicable in the separate input or parallel input of multiple DC currents.
- The contact area designed to clean themselves, the rotary positive axis is able to achieve the clearing and maintaining the contact voltage on the surface, extending the life expectancy of the switch.
- Dual position de-energizing mechanism, the magnetic de-energizing and spring de-energizing is integrated and simplified, which offers directly a press button at any distance.
- The rotating design is good, adopting rotating parts from world leading manufacturers, on braking devices to a protection degree of IP4X.
- Frame rotating material from world leading manufacturers, with a welding class of UL1598, is employed, so that under ambient temperatures -40°C to +70°C, the product can work without lowering the loads.
- The required torque to turn the switch is around 0.5Nm, easy to operate and the wiring terminal is easy to set cable of 4mm² to 10mm².
- The structural design of the safety lock to prevent misuse makes the switch operation more secure.
- The use of DB grade electric rating, provide a good capacity of overvoltage, qualified for overvoltage levels I and II and Pollution Level 2 environment.

### Model Designation Meaning

**PEDS150-DC-X**

- DC68: poles optional
- Level Actuator Lockable Optional
- Rated Thermal Current
- Door Clutch
- Rated Insulation Voltage 1500V
- PROJOY Electric DC Switch

### Technical Data

**PEDS150-DC-X**

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<td>Current (1s)</td>
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<td>Rated short-circuit making capacity (kA)</td>
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<td>1000</td>
<td></td>
</tr>
<tr>
<td>Rated thermal insulation current (kA)</td>
<td>1300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated short-circuit current (kA)</td>
<td>800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated thermal current capacity (kW)</td>
<td>2.4, 3.2, 4.0</td>
<td>2.5, 3.6, 4.0</td>
<td>2.5, 3.6, 4.0</td>
</tr>
<tr>
<td>Rated short-circuit making capacity (kW)</td>
<td>800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated thermal insulation current (kW)</td>
<td>1300</td>
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<tr>
<td>Rated short-circuit current (kW)</td>
<td>800</td>
<td></td>
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</tr>
<tr>
<td>Rated thermal current capacity (kW)</td>
<td>2.4, 3.2, 4.0</td>
<td>2.5, 3.6, 4.0</td>
<td>2.5, 3.6, 4.0</td>
</tr>
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</table>

- Switch to Safety Configuration

<table>
<thead>
<tr>
<th>Switching mode</th>
<th>DC16</th>
<th>DC25</th>
<th>DC32</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
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</tr>
<tr>
<td>2</td>
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<tr>
<td>3</td>
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<td>4</td>
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<td>7</td>
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<td>8</td>
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<td>9</td>
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<tr>
<td>10</td>
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<tr>
<td>11</td>
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<tr>
<td>12</td>
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<td>1</td>
<td>1</td>
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<td>13</td>
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<td>1</td>
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</tr>
<tr>
<td>14</td>
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<tr>
<td>15</td>
<td>1</td>
<td>1</td>
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<tr>
<td>16</td>
<td>1</td>
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<td>17</td>
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<td>1</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
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<td>1</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>1</td>
<td>1</td>
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<tr>
<td>20</td>
<td>1</td>
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</tr>
</tbody>
</table>

### Product Dimensions

- [Diagram](#)

---

**Technical Data**

PEDS150-DC-X

<table>
<thead>
<tr>
<th>Voltage Range (V)</th>
<th>DC16</th>
<th>DC25</th>
<th>DC32</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-150</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150-250</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>250-400</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>400-600</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600-1000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000-1500</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Range</th>
<th>DC16</th>
<th>DC25</th>
<th>DC32</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>85</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>105</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>125</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>145</td>
<td></td>
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<td></td>
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<tr>
<td>165</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>185</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Dimensions

- [Image](#)

---

**Technical Notes**

- **DC68:** poles optional
- **Level Actuator Lockable Optional**
- **Rated Thermal Current**
- **Door Clutch**
- **Rated Insulation Voltage 1500V**
- **PROJOY Electric DC Switch**

---

**www.projoy-electric.com**

---
ENCLOSURE DC ISOLATOR
PEDS150-ELR-X

**FEATURES**
- IP66 cover design.
- The screws on the base do not interfere with the sealing performance.
- Multiple mechanical seals ensure that the product is watertight and non-perforated design.
- Stainless steel making of screws in the cover does not rust nor any gasket; damp.
- All cables are available with seal ring, both covers are adhesively labeled to ensure the four fixing screws are symmetrically located.
- The installation can be done with an M3 or M4.
- Internal sealing ring and bottom covers, with combined use screws, guarantee an IP66 protection.

**PRODUCT DIMENSIONS**

**TECHNICAL DATA**

- **Data according to IEC60947-3 (ed.3.2):2015, Utilization category DC-PV0/DC-PV1.**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>EL16</th>
<th>EL25</th>
<th>EL32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated insulating voltage</td>
<td>1500</td>
<td>1500</td>
<td>1500</td>
</tr>
<tr>
<td>Rated impulse withstand voltage</td>
<td>4kV</td>
<td>4kV</td>
<td>4kV</td>
</tr>
<tr>
<td>Rated short-circuit breaking capacity</td>
<td>16A</td>
<td>16A</td>
<td>16A</td>
</tr>
<tr>
<td>Rated short-circuit making capacity</td>
<td>10kA</td>
<td>10kA</td>
<td>10kA</td>
</tr>
<tr>
<td>Rated insulation voltage</td>
<td>1500</td>
<td>1500</td>
<td>1500</td>
</tr>
<tr>
<td>Maximum cable cross sections [mm²]</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Flexible</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Rigid</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Tightening torque [N.m]</td>
<td>1.2</td>
<td>1.2</td>
<td>1.2</td>
</tr>
<tr>
<td>Total tightening torque [N.m]</td>
<td>2.4</td>
<td>2.4</td>
<td>2.4</td>
</tr>
</tbody>
</table>
| Type of knob | Safe-Lock in three rotational positions available, reducing the risk of mis-operation.

**CONTACT INFORMATION**

WWW.PROJOY-ELECTRIC.COM
## FEATURES
- Single hole mounting DC isolator
- Reliable switching up to 1500V DC216.
- Single-channel current can up to 40-55A.
- Positive contact, anti-contact optional.
- Single Hole Mounting
- Modular design, optional 2-8 levels.
- Pass through the international certification like IEC/SAA/CE/TUV etc.
- Imported seals make sure the installation machinery reach IP68 standard.

## TECHNICAL DATA

### PEDS40/55-HM-X

#### DATA ACCORDING TO: IEC60947-3 ed.3.2:2015, Utilization category DC-PV0/DC-PV1.

<table>
<thead>
<tr>
<th>Type</th>
<th>DC-PV0</th>
<th>DC-PV1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>40A</td>
<td>55A</td>
</tr>
</tbody>
</table>

#### Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insulation resistance</td>
<td>1000MΩ</td>
</tr>
</tbody>
</table>

#### Pollution degree

- 2

#### Storage temperature

- -40°C to +85°C

#### Mechanical life

- 10,000 cycles

#### Rated thermal current

- 2H

#### Rated short-circuit making capacity (at 2H)

- 8000V

#### Rated short-circuit withstanding voltage (at 2H)

- 8000V

#### TA rating

- 4-10A

#### Air gap

- 5mm

#### Terminal blocks

- 2 or 4

#### Mechanical life

- 60,000 cycles

#### Insulation resistance

- 1000MΩ

#### Contact resistance

- 50mΩ

#### Accessory components

- Knockouts:
  - 4 or 5

#### Dimensions

- **Module width**: 92mm
- **Height**: 116mm
- **Depth**: 107mm

#### Mounting holes

- 2

---

**PRODUCT DIMENSIONS**

[Diagram showing product dimensions]

---

## Contact Configuration

- **Series**: 1, 2, 3, 4
- **Poles**: 1, 2, 3, 4
- **Frame size**: 20

---

**Switch to Safety**

- **Projoy Electric Switch**

---

**WWW.PROJOY-ELECTRIC.COM**
**Pedestal Mounting DC Isolator**

**Model Designation Meaning**

- **Pedestal 150 R-PM 40 (R)-2**
  - 2, 4, 6, 8 poles optional
  - Rotary Lockout Optional
  - Panel Mounting
  - Insulation Voltage 1500V
  - Panel Mounting
  - Rated Thermal Current 40A/55A

**Features**

- Single-channel current can up to 40-55A
- Positive contact, anti-contact optional
- Single Hole Mounting
- Modular design, optional 2-8 levels
- Pass through the international certification like IEC/SAA/CE/TUV etc.
- Imported seals make sure the installation machines reach IP68 standard.

**Technical Data**

- **Pedestal 40/55-PM-X**
- Insulation Voltage 1500V
- Rated Thermal Current 40/55A
- 2, 4, 6, 8 poles optional
- Switching on or off torque
- Tightening torque knob screws M3
- Tightening torque single hole mounting nut M16
- Tightening torque panel mounting screws ST4.2 (304 stainless steel)
- Tightening torque terminal screws M4

**Product Dimensions**

- Panel mounting hole size
- Panel mounting hole size

**Product Configuration**

- o 2-8 levels
- -2/-2
- -1/-2
- +1/+1
- -1-1
- +1+1
- -2-2
- +2+2
- -3-3
- +3+3
- -4-4
- +4+4

**Advanced Parameters**

- Rated Breaking Capacity
  - Single Pole
  - 2000A
- 2 or 4
- 5000A
- 2500A

**Max. Fuse Size**

- 1000V
- 1000V
- 1000V
- 1000V
- 1000V
- 1000V

**Max. Short-Circuit Current**

- 2H, 3H, 4H
- 5000A
- 55V
- 55V

**Max. Short-Time Withstand Current**

- 1200A
- 1200A
- 1200A
- 1200A
- 1200A
- 1200A

**Contact Configuration**

- o 2-8 levels
- -2/-2
- -1/-2
- +1/+1
- -1-1
- +1+1
- -2-2
- +2+2
- -3-3
- +3+3
- -4-4
- +4+4

**Mechanical Life**

- 10000 hrs
- 10000 hrs
- 10000 hrs
- 10000 hrs
- 10000 hrs
- 10000 hrs

**Temperature**

- 10-40°C
- 10-40°C
- 10-40°C
- 10-40°C
- 10-40°C
- 10-40°C

**Options**

- 2 or 4 (8 pole optional)
- 2 or 4 (8 pole optional)

**Package Information**

- Per Pole
- Single Hole Mounting
- Panel Mounting
## DISTRIBUTION BOARD DC ISOLATOR

**PEDS40/55-DB-X**

### FEATURES

- Reliable switching up to 1500V DC21B.
- Single-channel current can up to 40-55A.
- Positive contact, anti-contact optional.
- Single Hole Mounting.
- Modulated design, optional 2-8 levels.
- Pass through the international certification like IEC/EN/CE/TUV etc.
- Imported seals make sure the installation machines reach IP68 standard.

### MODEL DESIGNATION MEANING

- **PEDS 150-DB X**
  - Optional: 2, 4, 6, 8 poles
  - Level Actuator Latchable
  - Rated Thermal Current
  - Distribution Board
  - Rated Insulation Voltage 1500V
  - PROJOY Electric DC Switch

### TECHNICAL DATA

**PEDS40/55-DB-X**

**Main Parameters**

<table>
<thead>
<tr>
<th>Technical data</th>
<th>DB40</th>
<th>DB55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated insulation voltage</td>
<td>1500V</td>
<td>1500V</td>
</tr>
<tr>
<td>Insulating medium</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Rated impulse withstand voltage</td>
<td>1500V</td>
<td>1500V</td>
</tr>
<tr>
<td>Rated short-time withstand current (1s)</td>
<td>2500A</td>
<td>2500A</td>
</tr>
<tr>
<td>Rated short-circuit breaking capacity</td>
<td>60kA</td>
<td>60kA</td>
</tr>
<tr>
<td>Rated DC current (at 24°C)</td>
<td>100A</td>
<td>100A</td>
</tr>
<tr>
<td>Minimum cable cross sections each (mm²)</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Inlet of standard</td>
<td>4.16</td>
<td>4.16</td>
</tr>
<tr>
<td>Outlet of standard</td>
<td>4.16</td>
<td>4.16</td>
</tr>
<tr>
<td>VDE/Test code</td>
<td>0470</td>
<td>0470</td>
</tr>
<tr>
<td>Voltage test at low leakage current</td>
<td>1000V</td>
<td>1000V</td>
</tr>
<tr>
<td>Tightening torque terminal screws M6</td>
<td>2.5Nm</td>
<td>2.5Nm</td>
</tr>
<tr>
<td>Tightening torque terminal screws M8</td>
<td>4.5Nm</td>
<td>4.5Nm</td>
</tr>
<tr>
<td>Rod length</td>
<td>160mm</td>
<td>160mm</td>
</tr>
<tr>
<td>Power loss per switch Max.</td>
<td>150W</td>
<td>150W</td>
</tr>
<tr>
<td>Overall dimensions:</td>
<td>80x40x150</td>
<td>80x40x150</td>
</tr>
<tr>
<td>Weight</td>
<td>1.2</td>
<td>1.2</td>
</tr>
</tbody>
</table>

### TECHNICAL DATA

**PEDS40/55-DB-X**

**Product Dimensions**

### CONTACT CONFIGURATION

<table>
<thead>
<tr>
<th>No. of Strings</th>
<th>No. of Poles</th>
<th>Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>-1</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>-2</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>-2</td>
</tr>
</tbody>
</table>

### Related Information

- **www.Projoy-Electric.com**
DOOR CLUTCH DC ISOLATOR

PEDS40/55-DC-X

FEATURES
- Reliable switching up to 1500V DC21B.
- Single-channel current can up to 40-65A.
- Positive contact, anti-contact optional.
- Single hole mounting.
- Modular design, optional 2-8 levels.
- Pass through the international certification like IEC/CEA/CE/CU etc.
- Imported seals make sure the installation machines reach IP66 standard.

MODEL DESIGNATION MEANING

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESIGNATION</th>
<th>MEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEDS</td>
<td>40/55-DC-X</td>
<td>DC ISOLATOR</td>
</tr>
</tbody>
</table>

TECHNICAL DATA

PEDS40/55-DC-X

Data according to IEC60947-3 (ed.3.2) 2015, Utilization category DC-PV0/DC-PV1.

- Main Parameters:
  - Rated Insulation Voltage: 1500V
  - Rated Insulation Current: 65A

- Technical Data:
  - Overvoltage category: Class B
  - Pollution degree: 3
  - Storage temperature: -40 to +70°C

- Import:
  - Seals made ensure the installation machines reach IP66 standard.
  - 304 stainless steel resistant to corrosion.

- Main Parameters:
  - Icm
  - Uimp
  - Ithe
  - T
  - W
  - V

- Technical Datas:
  - 2H, 3H, 4H

- Weight:
  - 2.0-2.3

- Tightening Torque:
  - Panel Mounting Screws ST4.2 (304 Stainless Steel)

- Switching Capacity:
  - 2000A

- Mechanical Life:
  - 9H, ON at 12H optional

- Mechanical Life:
  - 9H, ON at 12H optional

- Technical Datas:
  - DC40 DC55

- Contact Configuration:
  - PEDS100R-DC55

PRODUCT DIMENSIONS

PEDS40/55-DC-X

- Switch to Safety

WWW.PROJOY-ELECTRIC.COM
### ENCLOSED DC ISOLATOR

**PEDS150-EL40R-X (Cable Gland M16)**

- Rate Voltage: 40V
- Rated Current: 40A
- 1 or 2 Poles
- Temperature: -40°C to +70°C
- Storage Temperature: -40°C to +85°C
- Insulation Voltage: 1500V
- Rated Thermal Current: 5000A
- Rated Insulation Voltage: 5000V

**PEDS150-EL55R-X (M25 Waterproof Cap)**

- Rate Voltage: 55V
- Rated Current: 55A
- 1 or 2 Poles
- Temperature: -40°C to +70°C
- Storage Temperature: -40°C to +85°C
- Insulation Voltage: 1500V
- Rated Thermal Current: 5000A
- Rated Insulation Voltage: 5000V

### FEATURES

- Single-channel current can up to 40-55A.
- Positive contact, anti-contact optional.
- Single Hole Mounting.
- Pass through the international certification like IEC/SAA/CE/TUV etc.
- Modular design, optional 2-8 levels.
- Reliability switching up to 1500V DC21B.

### TECHNICAL DATA

**PEDS150/55-ELR-X**

- **Data according to IEC60947-3(ed.3.2):2015, Utilization category DC-PV0/DC-PV1.**

<table>
<thead>
<tr>
<th>Type</th>
<th>EL40</th>
<th>EL55</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP rating of shafting and mounting screws</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Overvoltage category</td>
<td>2H, 3H, 4H</td>
<td>2H, 3H, 4H</td>
</tr>
<tr>
<td>Pollution degree</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-40 to +85°C</td>
<td>-40 to +85°C</td>
</tr>
<tr>
<td>Operation temperature</td>
<td>-40 to +70°C</td>
<td>-40 to +70°C</td>
</tr>
<tr>
<td>Mechanical life</td>
<td>10,000hr</td>
<td>10,000hr</td>
</tr>
<tr>
<td>Number of knob positions</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Number of pole contacts</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Number of cable end contacts</td>
<td>4 or 5 cable end (standard)</td>
<td>4 or 5 cable end (standard)</td>
</tr>
<tr>
<td>Overall size (mm)</td>
<td>64</td>
<td>64</td>
</tr>
</tbody>
</table>

### PRODUCT DIMENSIONS

**PEDS150-EL40R-X (M25 Waterproof Cap)**

- **Rated Current:** 40A
- **Rated Voltage:** 40V
- **Type:** 2-pole
- **Insulation Voltage:** 1500V

**PEDS150-EL55R-X (M25 Waterproof Cap)**

- **Rated Current:** 55A
- **Rated Voltage:** 55V
- **Type:** 2 or 4 pole
- **Insulation Voltage:** 1500V

### TECHNICAL DATA

**PEDS150/55-EL-X**

<table>
<thead>
<tr>
<th>No. of Poles</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poles in series</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Part Number</td>
<td>PEDS150R-EL40-2H</td>
<td>PEDS150R-EL40-4B</td>
<td>PEDS150R-EL40-4S</td>
<td>PEDS150R-EL40-4T</td>
</tr>
<tr>
<td>Part Number</td>
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<td>PEDS150R-EL55-4B</td>
<td>PEDS150R-EL55-4S</td>
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</tr>
</tbody>
</table>

**DIMENSIONS**

- **Certificate:** CE, IEC, ROHS, TUV, CB
- **Use:** Electric DC Switch
- **Switch to Safety**
Industrial control machinery and a variety of machines widely applicable.

- The use of special silver alloy contacts, electrical life long, high reliability.
- Small size, saving installation space.
- Rated load current 20A, 32A, 40A, 63A, 80A, 100A.
- With the protection of the structure of the fingers, so that safe operation.
- A variety of installation methods, easy to use for various purposes (panel mounted type, rail mounting type, sealed switch box type).
- IP65 protection class.

**FEATURES**

**PRODUCT NAMING**

PEAS69-PM

**DIRECT RED/YELLOW 48mm HANDLE**

3 poles

Rated Thermal Current 20A

Front panel mount AC Isolator

Rated Insulation Voltage 660V

PROJOY Electric AC Switch

**TECHNICAL DATA**

**PEAS69-PM20-3-RY48**

- Direct red/yellow 48mm handle
- 3 poles
- Rated Thermal Current 20A
- Front panel mount AC Isolator
- Rated Insulation Voltage 690V
- PROJOY Electric AC Switch

**TECHNICAL PARAMETERS**

<table>
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<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Holes Dimensions</th>
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<td>PEAS69-PM20-3-RY48</td>
<td>66 64 48 10</td>
<td>10 5</td>
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**TECHNICAL SPECIFICATIONS**

<table>
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<tr>
<th>Model</th>
<th>Dimensions</th>
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<tr>
<td>PEAS69-PM80</td>
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<td>10 5</td>
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</table>

**TECHNICAL DATA**

**PEAS69-PM**

- Rated load current: 20A, 32A, 40A, 63A, 80A, 100A
- With the protection of the structure of the fingers, so that safe operation.
- A variety of installation methods, easy to use for various purposes (panel mounted type, rail mounting type, sealed switch box type).
- IP65 protection class.

**PRODUCT NAMING**

PEAS69-PM

**DIRECT RED/YELLOW 48mm HANDLE**

3 poles

Rated Thermal Current 20A

Front panel mount AC Isolator

Rated Insulation Voltage 690V

PROJOY Electric AC Switch

**TECHNICAL DATA**

**PEAS69-PM20-3-RY48**

- Direct red/yellow 48mm handle
- 3 poles
- Rated Thermal Current 20A
- Front panel mount AC Isolator
- Rated Insulation Voltage 690V
- PROJOY Electric AC Switch

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
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<tr>
<td>PEAS69-PM20</td>
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<td>10 5</td>
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<tr>
<td>PEAS69-PM32</td>
<td>66 64 48</td>
<td>10 5</td>
</tr>
<tr>
<td>PEAS69-PM40</td>
<td>66 64 48</td>
<td>10 5</td>
</tr>
<tr>
<td>PEAS69-PM63</td>
<td>66 64 48</td>
<td>10 5</td>
</tr>
<tr>
<td>PEAS69-PM80</td>
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<td>10 5</td>
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</table>

**TECHNICAL DATA**

**PEAS69-PM**

- Rated load current: 20A, 32A, 40A, 63A, 80A, 100A
- With the protection of the structure of the fingers, so that safe operation.
- A variety of installation methods, easy to use for various purposes (panel mounted type, rail mounting type, sealed switch box type).
- IP65 protection class.
Industrial control machinery and a variety of machines widely applicable.

The use of special silver alloy contacts, electrical life long, high reliability.

Small size, saving installation space.

Rated load current 20A, 32A, 40A, 63A, 80A, 100A.

With the protection of the structure of the fingers, so that safe operation.

A variety of installation methods, easy to use for various purposes (panel mounted type, rail mounting type, sealed switch box type).

IP65 protection class.

DISTRIBUTION BOARD AC ISOLATOR

PEAS69-DB

FEATURES

PRODUCT NAMING

PEAS69-DB 20-3-RY48

- Direct red/yellow 64mm handle
- 3 poles
- Rated Thermal Current 20A
- Direct handle base mounted AC Isolator
- Rated Insulation Voltage 660V
- PROJOY Electric AC Switch

TECHNICAL DATA PEAS69-DB

Technical Parameters

<table>
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<tr>
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<td>H2 64</td>
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<tr>
<td></td>
<td>L 64</td>
<td>d2 4.5</td>
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<td></td>
<td>H2 64</td>
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<td></td>
<td>L 64</td>
<td>d2 4.5</td>
</tr>
<tr>
<td></td>
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<td>p2 68</td>
</tr>
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</tr>
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<td></td>
<td>L 64</td>
<td>d2 4.5</td>
</tr>
<tr>
<td></td>
<td>p2 35</td>
<td>p2 68</td>
</tr>
<tr>
<td>PEAS69-DB60</td>
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<td>H2 64</td>
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<tr>
<td></td>
<td>L 64</td>
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<tr>
<td></td>
<td>p2 35</td>
<td>p2 68</td>
</tr>
<tr>
<td>PEAS69-DB80</td>
<td>H1 60</td>
<td>P2 48</td>
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<td></td>
<td>H2 64</td>
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</tr>
<tr>
<td></td>
<td>p2 35</td>
<td>p2 68</td>
</tr>
</tbody>
</table>

Note: All figures and dimensions of the technical data included.
**DOOR CLUTCH AC ISOLATOR**

**PEAS69-DC**

- Industrial control machinery and a variety of machines widely applicable.
- The use of special silver alloy contacts, electrical life long, high reliability.
- Small size, saving installation space.
- Rated load current: 20A, 32A, 40A, 63A, 80A, 100A.
- With the protection of the structure of the fingers, so that safe operation.
- A variety of installation methods, easy to use for various purposes (panel mounted type, rail mounting type, sealed switch box type).
- IP65 protection class.

---

**FEATURES**

**PRODUCT NAMING** PEAS69-DC 20-3-B48

Direct black 48mm handle
3 poles
Rated Thermal Current 20A
Base mount door interlock AC Isolator
Rated Insulation Voltage 690V
PROJOY Electric AC Switch

---

**TECHNICAL DATA** **PEAS69-EM**

### Technical Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Holes</th>
<th>Installation Dimensions</th>
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</thead>
<tbody>
<tr>
<td>PEAS69-DC20</td>
<td>60 x 48</td>
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<td>PEAS69-DC32</td>
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### PEAS69-EM

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<tr>
<td>PEAS69-DC80</td>
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### TECHNICAL DATA

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<td>PEAS69-32</td>
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<td>4.5 4.5 15 68</td>
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<td>PEAS69-63</td>
<td>60 x 48</td>
<td>10</td>
<td>4.5 4.5 15 68</td>
</tr>
<tr>
<td>PEAS69-80</td>
<td>60 x 48</td>
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<tbody>
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<td>4.5 4.5 15 68</td>
</tr>
<tr>
<td>PEAS69-DCE8</td>
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<td>10</td>
<td>4.5 4.5 15 68</td>
</tr>
</tbody>
</table>
ENCLOSURE AC ISOLATOR

**PEAS69-EL**

- **3 poles**
- **Rotary Lockable**
- **Rated Thermal Current 20A**
- **Enclosure Rated Insulation Voltage 690V**
- **PROJOY Electric AC Switch**

**FEATURES**

- Industrial control machinery and a variety of machines widely applicable.
- The use of special silver alloy contacts, electrical life long, high reliability.
- Small size, saving installation space.
- Rated load current 20A, 32A, 40A, 63A, 80A, 100A.
- With the protection of the structure of the fingers, so that safe operation.
- A variety of installation methods, easy to use for various purposes (panel mounted type, rail mounting type, sealed switch box type).
- **IPE5 protection class**

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Model</th>
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</thead>
<tbody>
<tr>
<td>PEAS69-EL20-3</td>
<td>134 x 81 x 145</td>
<td>115 x 81 x 4.2</td>
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<tr>
<td>PEAS69-EL32-3</td>
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<td>115 x 81 x 4.2</td>
</tr>
<tr>
<td>PEAS69-EL40-3</td>
<td>154 x 81 x 145</td>
<td>115 x 81 x 4.2</td>
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</tbody>
</table>

**PRODUCT NAMING**

PEAS 69-EL 20 R-3

- 3 poles
- Rotary Lockable
### Dimensions

<table>
<thead>
<tr>
<th>Product picture</th>
<th>Product name</th>
<th>Installation</th>
<th>Hole Dimensions</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Isolated Switch" /></td>
<td>Isolated Switch</td>
<td>panel mount</td>
<td><img src="image2" alt="Hole Diagram" /></td>
<td>PEAS69-PM40-4</td>
</tr>
<tr>
<td>![Main switch]</td>
<td>Main switch</td>
<td>Direct handle base mount</td>
<td><img src="image3" alt="Hole Diagram" /></td>
<td>PEAS69-DB40R-4RY64</td>
</tr>
<tr>
<td>![Main switch]</td>
<td>Main switch</td>
<td>Direct handle base mount</td>
<td><img src="image4" alt="Hole Diagram" /></td>
<td>PEAS69-DB40R-4B64</td>
</tr>
<tr>
<td>![Main switch]</td>
<td>Main switch</td>
<td>base mount door coupling</td>
<td><img src="image5" alt="Hole Diagram" /></td>
<td>PEAS69-DC40R-4RY64</td>
</tr>
<tr>
<td>![Main switch]</td>
<td>Main switch</td>
<td>base mount door coupling</td>
<td><img src="image6" alt="Hole Diagram" /></td>
<td>PEAS69-DC40R-4B64</td>
</tr>
<tr>
<td>![Enclosure]</td>
<td>Enclosure</td>
<td></td>
<td><img src="image7" alt="Hole Diagram" /></td>
<td>PEAS69-EL40R-4</td>
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<table>
<thead>
<tr>
<th>Product picture</th>
<th>Product name</th>
<th>Installation</th>
<th>Hole Dimensions</th>
<th>Model</th>
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</thead>
<tbody>
<tr>
<td>![Isolated Switch]</td>
<td>Isolated Switch</td>
<td>panel mount</td>
<td><img src="image8" alt="Hole Diagram" /></td>
<td>PEAS69-PM80-3</td>
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<tr>
<td>![Main switch]</td>
<td>Main switch</td>
<td>Direct handle base mount</td>
<td><img src="image9" alt="Hole Diagram" /></td>
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<tr>
<td>![Main switch]</td>
<td>Main switch</td>
<td>Direct handle base mount</td>
<td><img src="image10" alt="Hole Diagram" /></td>
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<td>![Main switch]</td>
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<td>base mount door coupling</td>
<td><img src="image11" alt="Hole Diagram" /></td>
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<tr>
<td>![Main switch]</td>
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<td>base mount door coupling</td>
<td><img src="image12" alt="Hole Diagram" /></td>
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<tr>
<td>![Enclosure]</td>
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<td></td>
<td><img src="image13" alt="Hole Diagram" /></td>
<td>PEAS69-EL80R-3</td>
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</table>
PROSOL-PVOBOX

Features:
- Configured with ground-PV modules insulation resistance inspection and grid voltage detection function;
- Automatic and manual channel switching is available;
- Max DC voltage up to 1500V;
- Supporting the inverter of 1-, 2- or 3-MPPT, and each MPPT may be connected in parallel by multiple strings;
- Same structure with the original photovoltaic system after using, without additional risks;
- Convenience to install;
- Series operation with up to 18 units;
- Technical Parameters:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Input voltage range</td>
<td>100Vac~264Vac</td>
</tr>
<tr>
<td>Input frequency</td>
<td>50Hz/60Hz</td>
</tr>
<tr>
<td>Input power dissipation</td>
<td>0.5W, 3.75W, 8.75W</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>400V/500V/600V/700V/800V/900V/1000V</td>
</tr>
<tr>
<td>Protective level</td>
<td>IP65</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C~+60°C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>0%~98%</td>
</tr>
<tr>
<td>Max. height</td>
<td>3000m</td>
</tr>
<tr>
<td>Size (length×width×height)</td>
<td>228 mm×250 mm×63mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1.0kg</td>
</tr>
</tbody>
</table>

PID Explanation:
According to the study, the high voltage between the crystal PV modules and grounded metal frames will cause panel efficiency to decrease continuously. There are a lot of factors leading to this decrease. For example, when panels work under high voltage as mentioned above, ionic migration occurs in the packaging materials and the outer layer; hot carriers appear in the panel; the reallocation of charges weakens the active layer of the panel; the circuit in the region will corrode. These mechanisms that cause attenuation are called PID.

PROJOY PV Offset Box is designed to stop the panels from losing energy due to PID. PROJOY PV Offset Box connects to inverter in parallel to create a high voltage between the negative electrode and the earth on the panel. During night, it will release the charge panel saved up in the daytime due the negative bias between negative electrode and the earth, by doing so, we will have the damaged panels repaired.
Recommendations and precautions

- This material should be installed under the guidance of a qualified technician.
- Please note that the installation needs two kinds of electric tension: PHOTOVOLTAIC AND PUBLIC DISTRIBUTION NETWORK, so it can be checked the power cut better before the operation or the junction box. It is necessary to accomplish a control campaign which is tightening the cables after vibration and shock which can happen during the transportation of the box. Also press the fuse of lightning arresters to ensure proper positioning.
- Although the fuse of lightning arresters will be separated under full load, we recommend you to cut the circuit before there placement to avoid all risk of burning that may occur via conduction terminals.
- UTE C15-712-1 recommend to use same type and same mark for the assembly of male/female connector.
- L’ UTE C15-712-1 recommend to use some type and same mark for the assembly of male/female connector.
- Do not open the box while charging for this type of installation (use the inter disconnecting switch).
- It is advisable to test it once by one as at the different electrical tension: PHOTOVOLTAIC AND PUBLIC DISTRIBUTION NETWORK, so it can be checked the power cut better before the operation or the junction box.
- The connections which are in operation: entry + via the panel, entry- via panel, output + and- toward to the inverter earth grounding refer to the drawing.
- For the complete information please refer to UTE C15-712-1,NFC15-100,NFC14-100 instructions.

- According to the lighting arrester, they should equippe an optical error signal : if it is red (see photo), it must change the relevant fuse (Decoupled the fuse through facade without disassemble the box).

MODEL DESIGNATION MEANING

- **PEDS**
  - 3000 - S
    - Single Phase System
    - Single MPPT

**PROJOY ELECTRIC DISTRIBUTION BOX**

- ROHS
- CB
- CE
- TUV
- IEC

- This material should be installed under the guidance of a qualified technician.
- Please note that the installation needs two kinds of electric tension: PHOTOVOLTAIC AND PUBLIC DISTRIBUTION NETWORK, so it can be checked the power cut better before the operation or the junction box. It is necessary to accomplish a control campaign which is tightening the cables after vibration and shock which can happen during the transportation of the box. Also press the fuse of lightning arresters to ensure proper positioning.
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- L’ UTE C15-712-1 recommend to use same type and same mark for the assembly of male/female connector.
- Do not open the box while charging for this type of installation (use the inter disconnecting switch).
- It is advisable to test it once by one as at the different electrical tension: PHOTOVOLTAIC AND PUBLIC DISTRIBUTION NETWORK, so it can be checked the power cut better before the operation or the junction box.
- The connections which are in operation: entry + via the panel, entry- via panel, output + and- toward to the inverter earth grounding refer to the drawing.
- For the complete information please refer to UTE C15-712-1,NFC15-100,NFC14-100 instructions.

- According to the lighting arrester, they should equippe an optical error signal : if it is red (see photo), it must change the relevant fuse (Decoupled the fuse through facade without disassemble the box).
**Schematic PEDB 6000SD-0**

- **DC**
  - M+1: Access terminal
  - F: Isolator 600V 25A
  - Wire 6mm²
  - N

- **AC**
  - M+1: Access terminal
  - F: Circuit breaker 230V 32A
  - N

- **Schematic PEDB 6000SD-1**

- **DC**
  - M+1: Access terminal
  - F: Fuse 25A
  - Isolator 600V 25A
  - Lightning protection 750V 40kA
  - Wire 6mm²
  - N

- **AC**
  - M+1: Access terminal
  - F: Circuit breaker 230V 32A
  - N

**Schematic PEDB 6000TD-0**

- **DC**
  - M+1: Access terminal
  - F: Isolator 1000V 25A
  - Wire 6mm²
  - N

- **AC**
  - M+1: Access terminal
  - F: Circuit breaker 400V 25A
  - N

**Schematic PEDB 6000TD-1**

- **DC**
  - M+1: Access terminal
  - F: Fuse 25A
  - Isolator 600V 25A
  - Lightning protection 1600V 40kA
  - Wire 6mm²
  - N

- **AC**
  - M+1: Access terminal
  - F: Circuit breaker 400V 25A
  - N
**PV DC SWITCHES**

| PEDS 16 | HM16 | PM16 | DB16 | DC16 | EL16 | E 16 |
| PEDS 25 | HM25 | PM25 | DB25 | DC25 | EL25 | E 25 |
| PEDS 32 | HM32 | PM32 | DB32 | DC32 | EL32 | E 32 |
| PEDS 40 | HM40 | PM40 | DB40 | DC40 | EL40 | E 40 |
| PEDS 55 | HM55 | PM55 | DB55 | DC55 | EL55 | E 55 |

**THE CONTACTS WIRING DIAGRAM**

### 1MPPT

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<thead>
<tr>
<th>Recommended Model</th>
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The Contacts Wiring Diagram

Switching examples

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The Contacts Wiring Diagram

Switching examples

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The Contacts Wiring Diagram

Switching examples

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The Contacts Wiring Diagram

Switching examples
### TECHNICAL PARAMETERS

#### DC22B

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#### JUMPERS FOR SERIES

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<td>6</td>
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<td>4</td>
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<tr>
<td>C</td>
<td>4</td>
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Jumpers can be selected based on your application.
GLOBALISED SERVICE AND LOCALISED SUPPORT

Projoy has set up branches in a number of countries, the Netherlands, UK, China, Australia, India, etc., and can provide convenient localized service and support to customers worldwide.

2000
Projoy has 30 year experience in product design and manufacturing of electrical switches and electrical connectors.

2015 sales expect to reach 20 million euros.

Projoy supply PV switches to over 60 inverter businesses worldwide.

GLOBAL PARTNERS

ITALY

ASIA-PACIFIC

CHINESE

There are 3 major R & D centers, Milan, Italy; Suzhou, and Xiamen, China.

Headquartered in Italy, PROJOY has offices in China, the UK, the Netherlands, Australia and India and other countries.

Projoy has 30 year experience in product design and manufacturing of electrical switches and electrical connectors.

There are 32 primary distributors in Italy, Britain, the Netherlands, Australia, India and so on.

32+

There are China three major R & D centers, Milan, Italy; Suzhou, and Xiamen, China.

5

30+

60+

2000