



Ip66 Dc Waterproof Isolator Switch With Air Valve

ADELS® is a professional manufacturer and supplier of Ip66 Dc Waterproof Isolator Switch With Air Valve in China. ELR1 series DC isolation switch uses IP66 waterproof shell, with excellent protection level, high quality plastic material, UV resistance, optional 2-4 poles, applied to distribution box. 2 mounting tabs, 4 x

M25 threaded hole handles to lock in the "OFF" position, optional MC4 plug with adapter or cable gland, easy to install and operate, easy to connect, and save space. The ELR1 series DC isolation switch has an air valve to facilitate air flow and reduce temperature. For more information about Ip66 DC waterproof isolation switch with air valve, please contact us!!

Model:ELR1

ADELS® is a professional leader China Ip66 Dc Waterproof Isolator Switch With Air Valve manufacturers with high quality and reasonable price. Welcome to contact us.

Ip66 Dc Waterproof Isolator Switch With Air Valve

- IP66 rated enclosure, UV Resistant
- 4x M20 knock holes
- The handle can be padlocked in the "OFF" position
- MC4 plugs can be selected for Convenient connection and space saving
- 2 Pole, 4 Poles are available (Single/Double String)
- Standard: IEC60947-3, AS60947.3
- DC-PV2, DC-PV1, DC-21B 16A, 25A, 32A, DC1200V
- 16A, 25A, 32A, 1200V DC

Ip66 Dc Waterproof Isolator Switch With Air Valve Application

ADELS ELR2 Series DC Isolator Switch in plastic enclosures are applied to 1~20 KW residential or commercial photovoltaic system, placed between photovoltage modules and inverters. Arcing time is less than 8ms, that keeps solar system more safe. To ensure its stability and long service life, our products are made by components with optimum quality. Max voltage is up to 1200V DC. It holds a safe lead among similar products.

Wenzhou Feimai Electric Co., Ltd.

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ELR1 DC Isolator Enclosure, IP66



Ip66 Dc Waterproof Isolator Switch With Air Valve Parameter

| Electrical Characteristics | |
|--|---|
| Type | FMPV16-ELR2, FMPV25-ELR2, FMPV32-ELR2 |
| Function | Isolator, Control |
| Standard | IEC60947-3, AS60947. 3 |
| Utilization category | DC-PV2/DC-PV1/DC-21B |
| Pole | 4P |
| Rated frequency | DC |
| Rated operational voltage (Ue) | 300V, 600V, 800V, 1000V. 1200V |
| Rated operational voltage (le) | See the next page |
| Rated insulation voltage (Ui) | 1200V |
| Conventional free air themal current (Ithe) | // |
| Conventional enclosed thermal current (Ithe) | Same as le |
| Rated short-time withstand current (Icw) | 1kA, 1s |
| Rated impuled withstand voltage (Uimp) | 8.0kV |
| Overvoltage category | II |
| Suitability for isolation | Yes |
| Polarity | No polarity, " + " and " - " polarities could be interchanged |
| Service life/cycle operation | |

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| | |
|------------------------------|----------------------------|
| Mechanical | 18000 |
| Electrical | 2000 |
| Installation Environment | |
| Ingress protection Enclosure | IP66 |
| Storage temperature | -40° C ~ +85° C |
| Mounting Type | Vertically or horizontally |
| Pollution degree | 3 |

Rated Voltage / Rated Current

| Wiring | Type | 300V | 600V | 800V | 1000V | 1200V |
|----------|---------------|------|------|------|-------|-------|
| 2P/4P | FMPV16 series | 16A | 16A | 12A | 8A | 6A |
| | FMPV25 series | 25A | 25A | 15A | 9A | 7A |
| | FMPV32 series | 32A | 27A | 17A | 10A | 8A |
| 4T/4B/4S | FMPV16 series | 16A | 16A | 16A | 16A | 16A |
| | FMPV25 series | 25A | 25A | 25A | 25A | 25A |
| | FMPV32 series | 32A | 32A | 32A | 32A | 32A |
| 2H | FMPV16 series | 35A | 35A | / | / | / |
| | FMPV25 series | 40A | 40A | / | / | / |
| | FMPV32 series | 45A | 40A | / | / | / |

Switching Configurations

| Type | 2-pole | 4-pole | 2-pole4-pole in series Input and Output bottom | 2-pole4-pole in series Input and Output on top | 2-pole4-pole in series Input on top Output bottom | 2-pole 4 paralleled Poles |
|-----------------------|--------|--------|---|---|--|---------------------------|
| / | 2P | 4P | 4T | 4B | 4S | 2H |
| Contacts Wiring graph | | | | | | |

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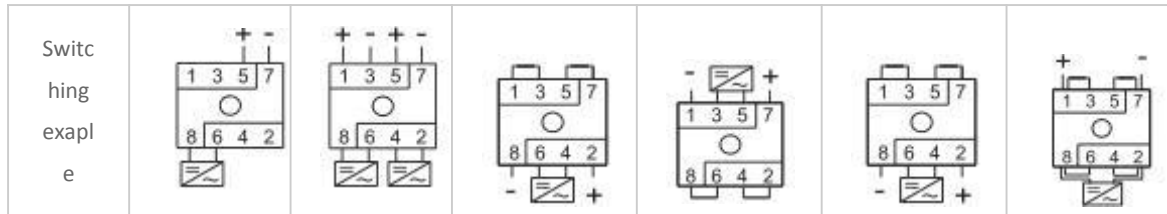
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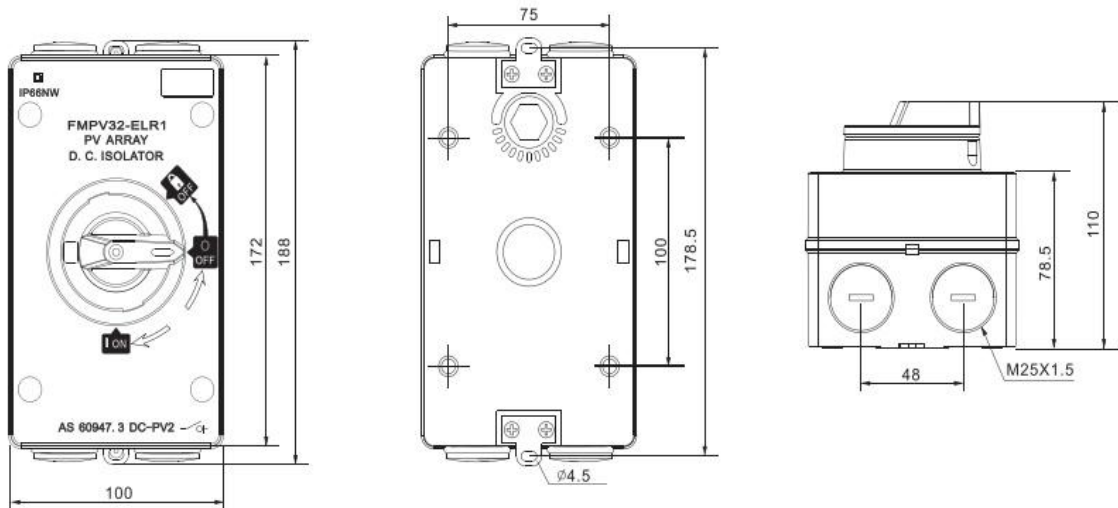
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Dimensions(mm)



The ELR1 DC Isolators have been specifically designed to switch Direct Current (DC) at voltages up to 1200Volts. Their robust design and ability to switch such voltages, at rated current, mean that they are ideally suited to be used in the switching of Photovoltaic (PV) systems.

The DC switch achieves ultra-rapid switching through a patented 'Snap Action' spring driven operating mechanism. When the front actuator is rotated, energy is accumulated in the patented mechanism until a point is reached at which the contacts are fired open or closed. This system will operate the switch under load within 5ms thereby reducing the arcing time to a minimum.

In order to reduce the chances of an arc propagating, the ELR1 switch employs rotary contact technology. This is designed to make and break the circuit through a revolving double break contact assembly that wipes as it moves. The wiping action has the added advantage of keeping the contact faces clean thereby reducing the circuit resistance and increasing the life of the switch.

The ELR1 boxed DC isolators are manufactured from flame retardant polycarbonate plastic resulting in an extremely strong, reliable, safe switch. They are also supplied in an enclosure which gives plenty of space for cabling.

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