



Din Rail Mounted Padlockable DC Isolator Switch

ADELS® is a specialized in high quality Din Rail Mounted Padlockable DC Isolator Switch manufacturer and supplier in China. The L1 series Din Rail Mounted Pad-lockable DC Isolator Switch can be locked in the "OFF" position for residential or commercial PV systems up to 1200V DC. Our products are far ahead of similar products, and the equipment

performance is excellent, the appearance is beautiful and generous, but also can adapt to various environments. We will bring more security to users with higher and more rigorous testing. Contact us for more details of our Din Rail Mounted Pad-lockable DC Isolator Switch!!!

Model:L1

ADELS® is Din Rail Mounted Padlockable DC Isolator Switch manufacturers and suppliers in China who can wholesale Din Rail Mounted Padlockable DC Isolator Switch.

Din Rail Mounted Padlockable DC Isolator Switch

- IP20 Protection Level
- Din rail mounted
- The handle can be locked in the "OFF" position
- 2 Pole, 4 Poles are viable (Single I Double String)
- Standard: IEC60947-3, AS60947.3
- DC-PV2, DC-PV1, DC-2 IB
- 16A, 25A, 32A, 1200V DC

Din Rail Mounted Padlockable DC Isolator Switch Application

LI Series DC Isolator Switch is 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.

L1 Series DC Isolator Switches

Wenzhou Feimai Electric Co., Ltd.

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Din Rail Mounted Padlockable DC Isolator Switch Parameter

| | |
|--|---|
| Type | FMPV16-L1, FMPV25-L1, FMPV32-L1 |
| 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 (Ie) | See the next page |
| Rated insulation voltage (Ui) | 1200V |
| Conventional free air thermal current (Ithe) | // |
| Conventional enclosed thermal current (Ithe) | Same as Ie |
| Rated short-time withstand current (Icw) | 1kA, 1s |
| Rated impulsed withstand voltage (Uimp) | 8.0kV |
| Overvoltage category | II |
| Suitability for isolation | Yes |
| Polarity | No polarity, "+" and "-" polarities could be interchanged |

Service life/cycle operation

| | |
|------------|-------|
| Mechanical | 18000 |
| Electrical | 2000 |

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Installation Environment

| | |
|--------------------------------|----------------------------|
| Ingress protection Switch Body | IP20 |
| Storage temperature | -40 ~ +85P |
| 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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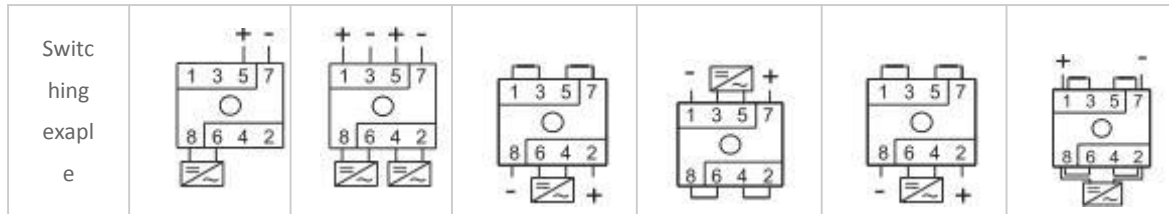
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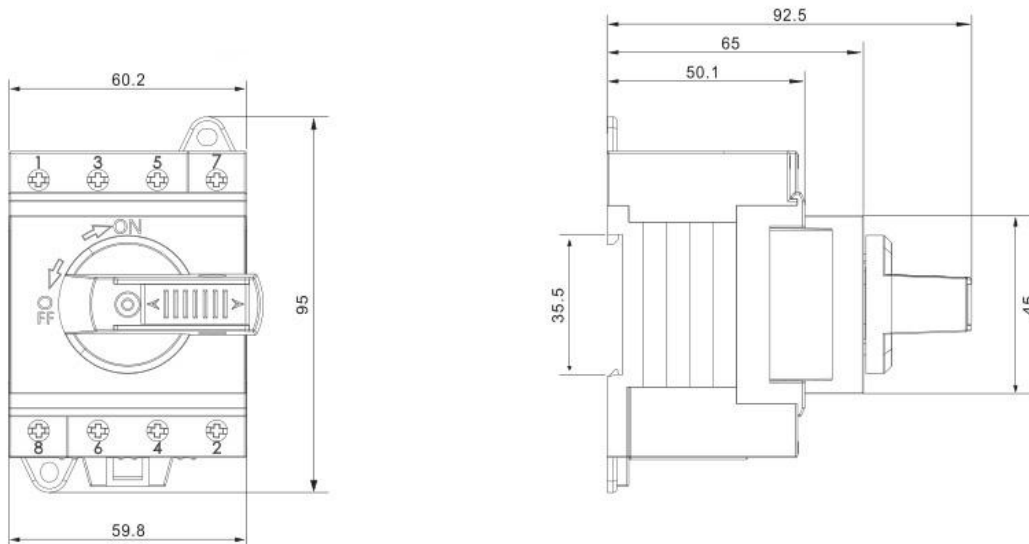
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Dimensions(mm)



The L1 Series 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 L1 Series 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.

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