

Key Features

- **Efficiency**
 - High heat dissipation capability.
 - Handles up to 12A (I_{mp}) continuous current.
- **Safety**
 - IP67 waterproof
 - UL94V-0 flameproof
- **Test**
 - 100 hours salt-spray.
 - 3,200Vdc high voltage.
- **Option**
 - 4.0mm solar connectors on each end.



Detail Features

Electrical Data and Safety	
Max. Device Rated Current	12A
Diode Rated Current	25A
Rated Voltage	1,000Vdc
Flame Class	UL94V-0
Protection Degree	IP67
Max. Altitude Rating	2,000 meters
Operation Humidity	4% to 100%
Operation Temperature	-25°C to +40°C
Mechanical Data	
Housing	Aluminum die casting
Surface treatment of Housing	Teflon or hard anodizing
Body Dimension (mm)	63(L) x 42(W) x 22(H)
Cable length on each lead (mm)	w/o conn.: 127±5 w/i conn.: 100±5
Net Weight (g)	w/o conn.: 123±5 w/i conn.: 144±5
Certification	
UL, TUV	N/A
Options	
Connector	Φ 4.0mm solar connector

The inline blocking diode is designed to handle a single solar string, prevent reverse current caused by voltage difference among solar strings.

High heat dissipation capability by applying aluminum die casting, waterproof aluminum enclosure.

Aluminum enclosure is suggested be mounted on metal solar rack to drain the heat away, keep the diode in lower operation temperature.

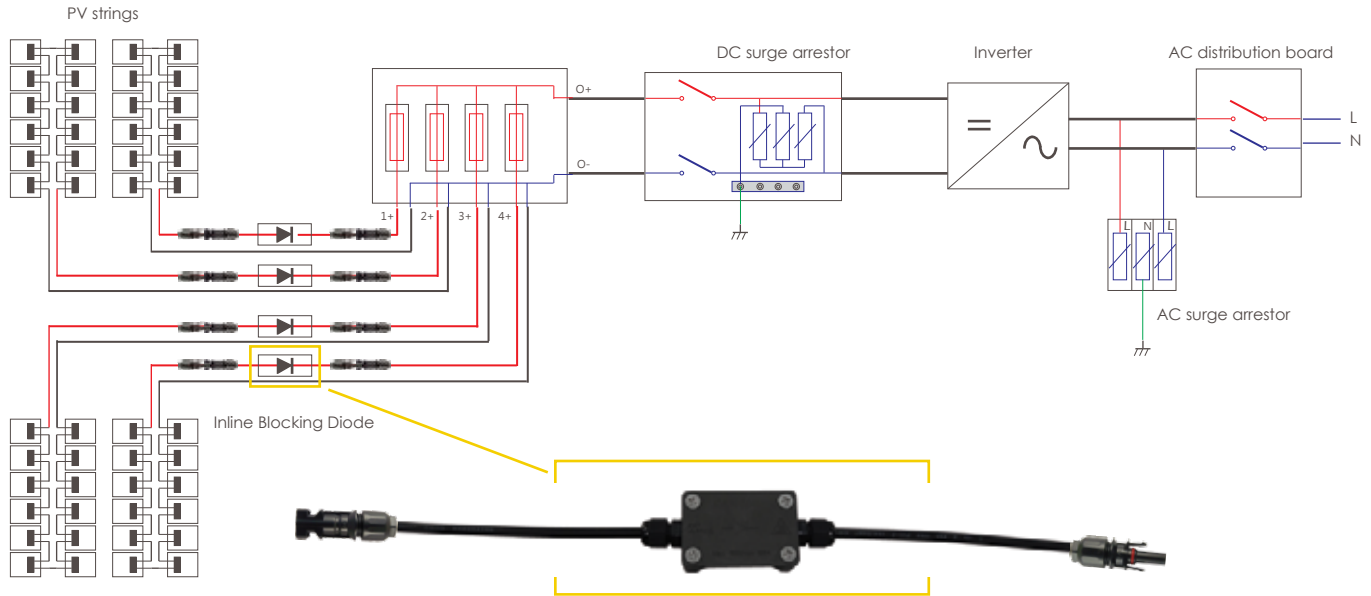
The inline blocking diode is IP67 waterproof, UL94V-0 flameproof, one hundred hours salt-spray tested, and 3,200Vdc high voltage tested for using in 1,000Vdc solar system. Fits outdoor applications.

CAN Solar Inc.

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Inline Blocking Diode

A drawing of deployment



Inline Blocking Diode

Company profile

Can Solar Inc. has established in year 2012, focus on innovative products for solar installations and renewable energy, such as the world unique Solar Combiner Boxes, Solar inline Blocking Diode. In year 2017 we extend our step into solar storage system, specially on off-grid for remote area and utility unstable area.

To summarize, Can Solar Inc. provides below services:

- All-in-One Solar / Utility Power Bank (Energy Storage System; ESS)
All-in-one machine, included:
4 kW solar port incl. MPPT charger, 3 kVA off-grid inverter, and 4 kWh or 8 kWh LiFePo4 battery pack(s). To connect solar panels then AC power is ready. Simple and easy for installation and using.
- Solar / Utility storage system
8.2 kWh LiFePO4 battery unit, 4 kW inverter unit, 10.5A utility charger, optional Solar charger, optional Gateway to sense & display charging current and load current via mobile app.
- Solar Combiner Boxes (solar DC combiner)
To combine two solar strings into one output, to solar inverter with, IP65 water resistant, UL94V-0 flame-proof, NEMA 4X anti-corrosion & UV resistant. Each solar port can carry up to 1,000V 16A.
- Solar inline Blocking Diode
Rated 12A
IP67 water resistant, UL94V-0 flame-proof
Aluminum cast enclosure to support excellent heat dissipation

Product photo



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