

Industrial Solar Power PoE Switch

BSP-300

Quick Installation Guide

Safety Precautions

Please read before using

1. All electrical work must be done in accordance with local, and/or international electrical codes.
2. Before installing or using this device, read all instructions and cautionary marking located in (or on) this guide, the controller, the batteries, PV (Photovoltaic) array and any other device used.
3. To reduce the risk of short-circuits, use insulated tools when installing or working with the inverter, the controller, the batteries, or any DC source (e.g., PV).
4. Remove all jewelry. This will greatly reduce the chance of accidental exposure to live circuits.
6. The controller contains more than one live circuit (batteries and PV array). Power may be present at more than one source.
7. This product contains no user serviceable parts. Do not attempt to repair this unit unless fully qualified.

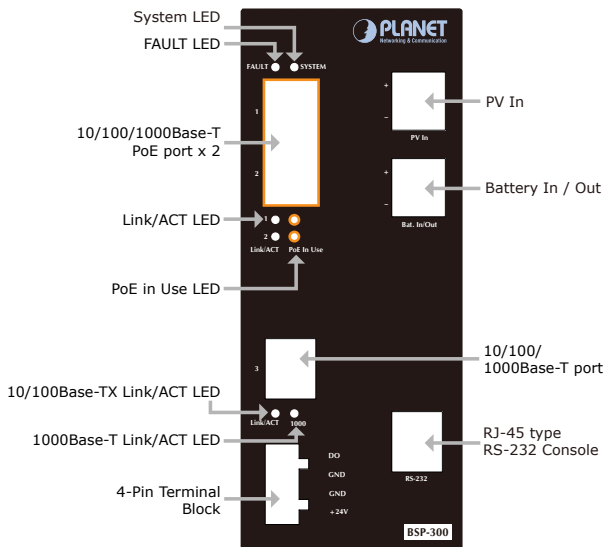
Table of Contents

1. Package Contents	4
2. Overview	5
3. Hardware Installation	6
Further Information	11

1. Package Contents

- 1 x BSP-300
- 1 x Quick Installation Guide
- 1 x RS232 Console Cable
- 1 x CD
- 2 x Rack Ear
- 1 x Screw Kit

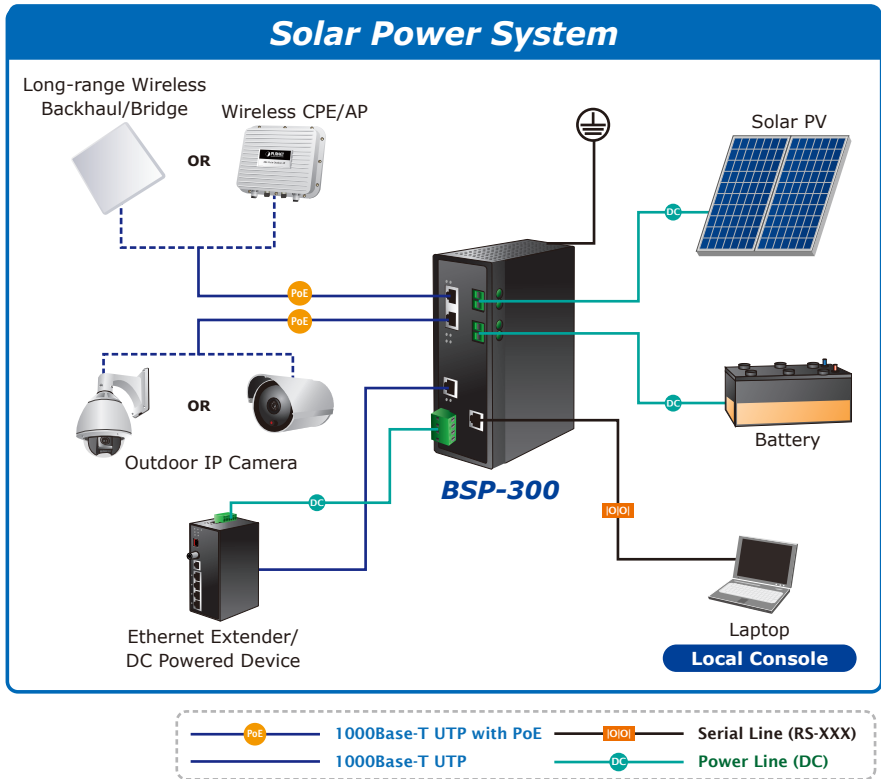
2. Overview



LED Definition

LED	Status	Description
System	Slow Blink	System On.
	Fast Blink	The battery is Charging.
Fault	Slow Blink	The PV disconnects.
	Fast Blink	The battery voltage is less than the value for low-voltage disconnection.
	On	Bad Battery / Over-current / Short-circuit.
Link/ACT (For Port 1~2)	On	The 10/100/1000Base-T PoE port is link up.
	Blink	The BSP-300 is actively sending or receiving data over that port.
PoE in Use	On	A PoE device is detected.
	Off	No PoE device attached.
1000	On	The port is running in 1000Mbps speed and successfully established.
	Blink	The BSP-300 is actively sending or receiving data over that port.
Link/ACT (10/100Base-TX For Port 3)	On	The port is running in 10/100Mbps speed and successfully established.
	Blink	The BSP-300 is actively sending or receiving data over that port.

3. Hardware Installation



Please follow the following steps (sequence) to install the system:

Step 1. Install BSP-300

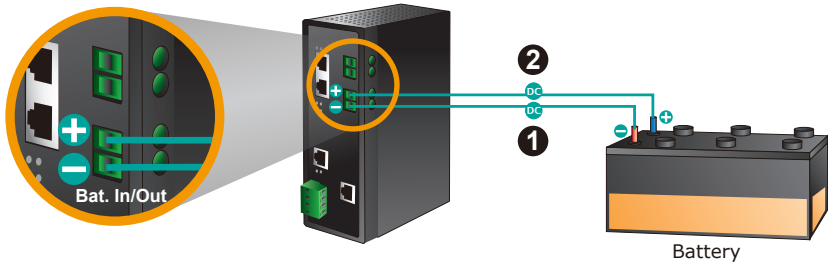
Fix BSP-300 to desired location with wall mount fixture.



Note

- Please install the BSP-300 in a proper enclosure or shelter.
- The BSP-300 must be grounded.

Step 2. Install battery



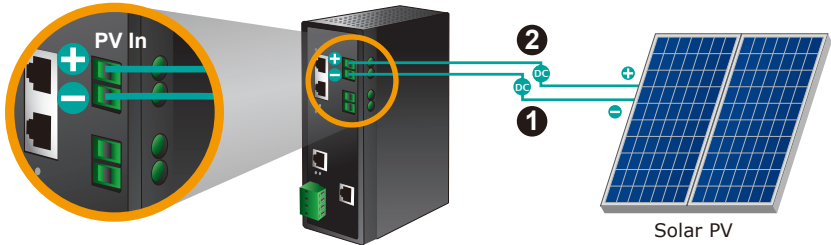
- (1) Connect the negative electrode of the battery to the terminal for the negative electrode of the battery on the BSP-300.
- (2) Connect the positive electrode of the battery to the terminal for the positive electrode of the battery on the BSP-300.
- (3) After the battery is well connected to the BSP-300, the System LED will ON with slow blinking for system ready and the Fault LED will slow blinking for PV not connected.



Note

- Be noted for the thickness of electric wire and please refer to the section - **Recommended Use of the Connection Wires** of the user manual.
- The BSP-300 accepts **DC 24V** battery system, please pay attention to the battery characteristics and also refer to the section - **Recommended Settings for Different Batteries** of the user manual.
- Check the total power consumption of your connected network device before installation. Improper battery capacity could shorten the battery life or make your network device lack of power supply.

Step 3. Install PV panel



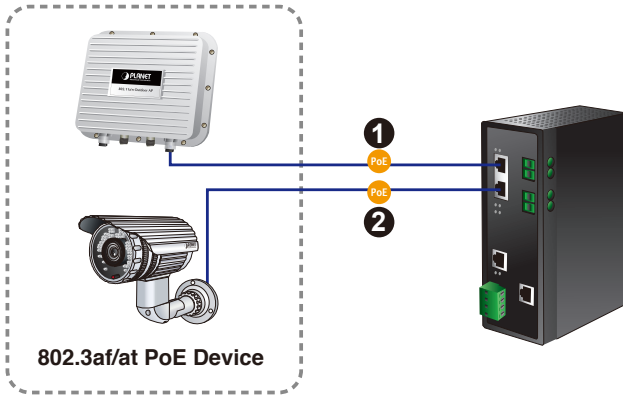
- (1) Connect the negative electrode of the PV panel to the terminal for the negative electrode of the PV panel on the BSP-300.
- (2) Connect the positive electrode to the terminal for the positive electrode of the PV panel on the BSP-300.
- (3) After the PV is well connected to the BSP-300 and providing 24V or above voltage, the System LED will fast blinking for battery charge if the battery is not full. And turn off the fault LED.



Note

- Be noted for the thickness of electric wire and please refer to the section - **Recommended Use of the Connection Wires** of the user manual.
- The BSP-300 supports maximum **45V DC input**, please refer to the Specification of the user manual before installation.
- Check the total power consumption of your device and the sunshine duration of your area from weather bureau for a proper PV. Improper PV could shorten the battery life or provide insufficient power to BSP-300.

Step 4. Connect 8023af / 802.3at PoE Device



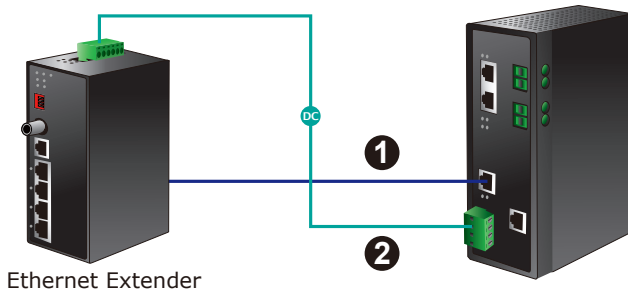
- (1) Connect the PoE devices to Port 1 / Port 2 of the BSP-300.
- (2) Check the PoE In-Use LED, if the network devices such as PoE Camera, PoE Wireless AP is powered, the PoE In-Use LED will turns ON and Link/Act LED will turns on or blinking for a success connection or data receiving.



Note

- Please use Cat. 5/5e or above cable and the maximum distance should within 100 meters.
- If the Network devices are installed outdoor, please consider to install a lightning arrester to protect the network device and BSP-300.

Step 5. Connect other device



- (1) Connect any other network device to Port 3 of BSP-300.
- (2) If there is device require DC power, connect the pin 3 / pin 4 of the terminal block from BSP-300 directly.



Note

- The maximum DC out from BSP-300 is 24VDC, 2A.
- The external device should also be grounded properly.

After the 5 steps above, the BSP-300 is ready for service.

Further Information

For more information about this Solar Power PoE Switch, please refer to the user manual from the supplied CD-ROM.