

BPA- Battery Protector- Automotive



The BPA Battery Protector-Automotive is a battery low- voltage disconnect unit specifically setup for use with 12VDC lead-acid batteries. It can be used wherever a load is connected to an automotive cigarette

type socket. The Battery Protector will disconnect the load when the battery voltage falls below a preset level. This reserves enough power to start the car, boat or other vehicles. The unit will automatically reset once the battery is charging. The equipment can be left on and you do not need to worry about draining and damaging the battery.

Features

- Adjustable low voltage shut-off setting.
- Adjustable flashing LED voltage level settings.
- Input power polarity protected.
- Compact and easy-to-use in-line connection.
- Automatic operation. Auto shut-off and reset.
- Surge delay.

Operation

The Battery Protector requires no user intervention or affects the equipment in use during normal operation. The LED will start to flash slowly when the battery is below a preset level. The flashing rate will increase as the voltage decreases. The power output through the relay output will shut off once a preset low voltage level is reached. The LED will flash at a rapid rate to indicate the output is off. The shut off is set so there is enough reserve energy for emergency use or to start the boat/car once. It will stay off until the circuit is manually reset or automatically reset during battery charging.

Benefits

- Extends battery lifespan.
- Prevents over discharged batteries.
- Reserve power for car restarting.
- Reserve power for emergency use.

Applications

- Whenever a load is connected to the battery.
- Unattended power connections to the battery.

Available Model

OT-BMBPA-12V10-01: Battery Protector, 12VDC 10A, automotive plug, enclosure.
 OT-BMBPA-12V10-02: Battery Protector, 12VDC 7A, inline MOSFET module.
 24VDC models and other voltage settings available.

Technical Specifications:

	12V Model (10A)	24V Model (10A)
Operating voltage:	10V-15V	20V-30V
Low flashing voltage:	12V (adjustable)	24V (adjustable)
Shut-off voltage:	11.2V (adjustable)	22.4V (adjustable)
Automatic reset voltage:	~ 12.8V (adjustable)	~ 25.6V (adjustable)
Relay current:	10A max.	10A max.
Relay type:	SPDT	SPDT
Current consumption (On):	45mA	50mA
Standby current (relay off):	7mA	9mA
Operating temperature:	-30°C to +65°C	-30°C to +65°C
Initial power stay on delay:	~ 10 seconds	~ 10 seconds
Voltage drop surge delay:	~ 10 seconds	~ 10 seconds

Note: Do not use in wet locations. Do not exceed the specifications of the unit.

Housing Dimension: 100mm x 50mm x 25mm, (4"x2"x1", LxWxH)

Cord Length: 6 feet"

Weight: 200 gram

Enclosure: ABS, weather proof (IP54)