

# 500A/50mV Shunt For DC Monitors & Meters



**Price:** CAD \$69.99

**SKU:** SF\_SHUNT

**Product Categories:** [CC Accessories](#), [Charge Controllers](#), [Meters](#), [Shop](#), [Wiring & BOS](#)

**Product Tags:** [500a](#), [500a shunt](#), [50mv](#), [ammeter](#), [canada](#), [current](#), [dc current](#), [genasun](#), [ipn](#), [measure](#), [meter](#), [midnite](#), [shunt](#), [shunt canada](#), [whiz](#)

**Product Page:** <https://www.modernoutpost.com/product/500a-50mv-shunt-for-dc-monitors-meters/>

## Product Summary

This is the industry standard shunt for precision DC current metering. Used with solar power systems, wind power, and battery solar chargers. The current/voltage ratio for this model is the standard 500A/50mV. This shunt includes taptite mounting screws on the side for meters such as the [Midnite Whiz Bang Jr](#), and also works with other meters that specify this shunt ratio. Compatible with the IPN ProRemote and ProTouch remote displays for enhanced battery monitoring.

## Product Description

This is the industry standard shunt for precision DC current metering. Used with solar power systems, wind power, and battery solar chargers. The current/voltage ratio for this model is the standard 500A/50mV. This shunt includes taptite mounting screws on the side for meters such as the [Midnite Whiz Bang Jr](#), and also works with other meters that specify this shunt ratio. Compatible with the IPN ProRemote and ProTouch remote displays for enhanced battery monitoring.

Shunt Specifications

**Resistance:** "500 Amp at 50 millivolts", or 0.1 milliohm.

**Max. steady state current, amps:** 410 Amperes

**Thermal time constant:** 18 minutes

**Overload current:** If normally operated at less than 300 amps, it will take overloads to 500 amps for durations of less than 5 minutes.

**Physical characteristics:** Has a plastic base 3.25 x 1.75 in. with two mounting holes .205 "dia, 1.25" apart o.c. 1.75 inches overall height. High current connections are made to two bolts (3/8"-16) which are 1.50 in. apart (o.c).

### How a shunt works

A shunt is used to measure the flow of current through a circuit. As a highly tuned resistor, a shunt provides a very small voltage drop when current flows through it, which a meter uses to calculate how much current is flowing in the circuit. The current flow over time can be used to assess overall energy flow in the system, and hence is a very valuable tool when trying to determine the state-of-charge of a battery bank (as an example). While battery voltage can give you clues as to the state-of-charge, they will not be as accurate as actually counting electrons precisely (ie monitoring current flow). This is due to the voltage being affected by loads on the system, and chargers on the system, which skew the voltage either down or up.

## Product Attributes

- Dimensions: 9 &times; 5 &times; 7 cm
- Weight: .32 kg

## Product Gallery

