

BCM Battery Monitoring System



The BCM Battery Monitor from **philippi** is a state-of-the-art, highly accurate instrument that employs digital data transfer between the Shunt and Monitor. To achieve this, the Shunt is equipped with a 16 bit micro processor that converts the analog current reading to digital data before then transferring it to the Monitor. The result is high overall accuracy and reliability, especially accumulatively over time, as the measurements are made at the Shunt. Typically, other battery monitors take measurements at the end of a twisted pair of wires extended to the monitor, which can lead to inaccuracies due to induction, interference or losses.

The BCM 1 is ideal for full monitoring of one main battery plus voltage indication of two auxiliary batteries. It requires one Shunt installed in the battery negative line,

for a maximum of either 300 amp or 600 amps continuous. The BCM 2 can fully monitor two main batteries and show voltage of two auxiliary banks, and requires two shunts. Both the BCM 1 and BCM 2 are available in flush mount (standard), or with an optional built-out housing. A high voltage version, the BCM 48, is available for battery systems of 36 to 48 volts, and the BCM G has automatic generator start/stop capability.

The large, easy to read, illuminated LCD screen shows main battery volts and discharge/charge current, while a large battery graphic indicates the charge level and shows either State of Charge in amp/hours or percentage, plus time-to-go-to-alarm at the present rate of current draw. Separate, smaller battery symbols show the voltage of a second and third batteries, if connected. The exceptionally low current draw (2.5 mA at 12v) allows for continuous operation.

A visual and audible (buzzer) alarm can be set for the main battery, with a user-adjustable capacity threshold, and adjustable low voltage alarms can be set for second and third batteries, if connected.

Other features include provision for the Peukerts number to be entered according to the type of battery connected, plus indication of: Charge Efficiency Factor, Number of Cycles, and Number of Deep Discharges.



Digital Shunt – 300 Amp

SPECIFICATIONS

Voltage	Range	8.5 – 30v	(10.5 – 60v, BCM 48)
	Resolution	0.01v	
	Accuracy	0.6v	

Current	Range	0 – 600 amp	
	Resolution	0.01A	
	Accuracy	0.8A	

Amp/Hrs	Range	0-6,000 A/Hrs	
	Resolution	1 A/Hr	

Power Consumption 3.5 mA operating, 2.5 mA stand-by, 55 mA with illumination (12v)

Dimensions – Monitor	4.1" x 4.1" x 1.6"
Shunt, 300 Amp	4.6"L x 1'6"W x 2.0"H
Shunt, 600 Amp	7.3"L x 1.7"W x 2.7"H

Shunt, 300 amp	Continuous Current	300 amp @12v (3,600 watt)	
	1 minute	600 amp @12v	
	0.5 sec	1,500 amp @12v	
	Range	10 mA to 300 amp @12v	8 to 60 volts
	Connection	M10 studs	

Shunt, 600 amp	Continuous Current	600 amp @12v (7,200 watt)	
	1 minute	800 amp @12v	
	0.5 sec	2,500 amp @12v	
	Range	10 mA to 600 amp @12v	8 to 60 volts
	Connection	M16 studs	

Connecting Cable	Standard	16' (5m)
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