CAMPBELL SCIENTIFIC
WHEN MEASUREMENTS MATTER

38898

SunSaver MPPT 15 A Charge Controller for 12 or 24 V Batteries

A Charge Controller Designed for Large Solar Panels

Overview

The 38898 consists of a Morningstar 15 A charge regulator that has been re-configured by Campbell Scientific and includes the mounting hardware to mount it to a 2.54 cm (1 in.) grid back panel. This charge controller is well suited for large power supplies, which includes an AGM battery (BP84 84 Ah 12 V Sealed Rechargeable Battery) and a large solar panel (SP370-L 370 W Solar Panel). As an additional benefit, Campbell Scientific provides full support of the SunSaver MPPT.

Benefits and Features

- Preconfigured to work with AGM battery types and to prioritize data collection over long-term battery health
- 12 V or 24 V battery charging
- 60 Vdc maximum input compared with the 50 Vdc on the CH201 and 40 Vdc on the CH150
- Selectable battery type: gel, sealed, AGM, flooded
- Programmable low voltage disconnect (LVD)
- Auto-equalization feature for AGM battery types
- Terminals for remote temperature sensor (RTS) to compensate charging based on battery temperature; use pn 38899
- Built-in temperature sensor for use when no RTS is provided
- Battery status LEDs to provide battery state of charge and indicate fault condition
- RS-232 communication with pn 34540

Detailed Description

The 38898 uses maximum power point tracking. While the 38898 is capable of RS-232, Modbus, and USB communications, only RS-232 communication is supported through the hardware. *Note:* When reading parameters off the 38898 using a data logger, you must use the CPI/RS-232 port. This functionality does not work when using the control ports.

The 38898 offers the ability to select the battery type: gel, sealed, AGM, or flooded. To set the battery type, use a jumper and switch #1.

The 38898 offers programmable low voltage disconnect (LVD). From the manufacturer, the 38898 comes with an 11 V LVD when switch #2 is on and an 11.5 V LVD when switch #2 is off. At Campbell Scientific, we prioritize data over battery health and reconfigure the LVD to 8.5 V and the LVR to 10.0 V.

Caution: Draining a battery below 11.5 V will shorten the life of the battery.

Specifications

Operational Temperature	-40° to +60°C
Storage Temperature	-55° to +100°C
Battery Voltage Range	7 to 36 V (power out)
Maximum Input Voltage	60 V
Quiescent Current	35 mA
Certifications	❱ Manufactured in a certified ISO 9001 facility. ❱ IEC 62109 ❱ ETL Listed (UL-1741 and Canadian CSA C22.2 No.107.1.01) ❱ FCC Class B Part 15 compliant ❱ CE and RoHS
Dimensions	❱ 6.43 x 19.1 x 7.26 cm (2.53 x 7.52 x 2.86 in.) with mount foot ❱ 6.43 x 16.89 x 7.26 cm (2.53 x 6.65 x 2.86 in.) without mount foot
Weight	589.67 g (1.3 lb)

For comprehensive details, visit: www.campbellsci.com/38898

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