



CH400

Dual Battery Smart Charging Regulator with 12 V and 24 V Regulated Outputs



Overview

The CH400 is a battery charger specially built for applications suited for the GRANITE™ Series. It includes the following:

- ▶ An increased overall power rating
- ▶ Two independent battery chargers
- ▶ Regulated 12 V and 24 V outputs
- ▶ A CSIO connection to the data logger for charge and load monitoring reports

Specifications

Operating Temperature Range	-40° to +70°C
Humidity Range	0 to 100% (non-condensing)

Charge Input

Number of Channels	2
Input Voltage	11.5 to 50 Vdc
Input Current	20 A (sum of both input channels)
Wire Gauge	24 to 8 AWG
Ground Fault Fuse	30 A (blowable mini blade fuse that is user-serviceable)

Battery Terminals

Number of Channels	2 (The two battery channels are functionally independent of one another.)
Battery Chemistry Charge Profiles	Lead acid: flooded, gel, or AGM
Nominal Battery Voltage	12 V

Charging Voltage	11.5 to 16 V
Charging Current Limit	14 A
Charging Modes	▶ Float charge ▶ Cycle charge (bulk and absorption)
Low Voltage Disconnect	11.5 V (if feature is enabled via the panel switch)
Low Voltage Reconnect	12.3 V (if feature is enabled via the panel switch)
Wire Gauge	24 to 8 AWG
Ground Fault Fuse	30 A (blowable mini blade fuse that is user-serviceable)

Thermal Properties

Battery Probe Measurement Range	-55° to +125°C
Battery Probe Accuracy	1°C (nominal)
Fan Enable Temperature	55°C (nominal)



Fan Disable Temperature 53°C (nominal)

Communications

Communications Ports » SDI-12 (for communication with any SDI-12-capable data-acquisition system)

- » CS I/O (for communication with CR1000X, CR6, Granite 6/9/10)
- » USB Micro B (for communication with PC using DevConfig)

For comprehensive details, visit: www.campbellsci.com/ch400 



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