



Sealed Rechargeable Battery

CH150 charger mounted alongside a BP17E in a typical logger enclosure configuration

Overview

Campbell Scientific's BP17E is a 12 VDC, 17 Ah power supply intended for systems with above-average power requirements. The BP17E rechargeable battery has a 17 Ah rating.

Technical Description

12 Vdc Sealed Rechargeable Batteries

The BP17E consists of a sealed rechargeable battery, two battery cables, and hardware for mounting the battery in an enclosure. One of the cables terminates in a connector for attachment to a Campbell Scientific regulator, and the other cable terminates in stripped and tinned leads for attachment to the CR6 datalogger's onboard regulator. When used outdoors, the BP17E and regulator need to be housed in a larger environmental enclosure (ENC16/18, ENC24/30, or ENC24/30S).

Regulators

The regulator controls the current flowing to the battery and prevents the battery current from flowing to the charging source.

Our CH150 and CH200 regulators are microcontroller-based smart chargers with temperature compensation that optimize battery charging and increase the battery's life.

The CH150 is for standard applications. The CH200 includes RS-232 and SDI-12 terminals that allow a datalogger to monitor various input, output, and status parameters.

Charging Sources

Several wall chargers and solar panels are available for recharging the sealed rechargeable battery (see Ordering Information). Solar panels charge batteries by converting sunlight into direct current. Wall chargers use power from external ac power lines to recharge the batteries.

Adapters

Campbell Scientific offers two adapters that fasten onto our CH200 and CH150. The A100 allows the CH200 or CH150 to power peripherals and external devices at nondatalogger sites such as repeater stations. The A105 adapter increases the number of 12 V and ground terminals available on the CH200 or CH150. The A100 and A105 cannot be used at the same time.

Specifications

- › Output Voltage: 12 Vdc
- › Nominal Rating: 17 Ah
- › Weight: 2.72 kg (6 lb)
- › Dimensions: 15 x 9.4 x 6.4 cm (5.9 x 3.7 x 2.5 in)
- › Cable Length: 45.7 cm (18 in)

Ordering information

Power Supplies

BP17E 12 V Sealed Rechargeable Battery w/Mounts, 17 Ah

Regulators for BP17E

CH150 12 V Charging Regulator

CH200 12 V Charging Regulator

Adapters for the CH150 or CH200

A100 Null Modem Adapter

A105 12 V Terminal Expansion Adapter

Wall Chargers for CH150 or CH200

004214 Power Supply 100-240 V ac 24 V dc 1.67A
c/w UK & Euro Adapters (1.5 m Cable)

004219 **AC-ADAPT2** -UK 230-18 V ac Adapter UK
Plug (user supplied cable)

004218 **AC-ADAPT2** -Euro 230-18V ac Adapt Euro
Plug

Solar Panels for CH150 or CH200

009276 **SP10** - 10W Solar Panel c/w Bracket & 4.5
Metre Cable (other cable lengths available)

009522 **SP30** - 30W Solar Panel c/w Bracket & 5
Metre Cable (other cable lengths available)

009511 **SP60** - 60 W Solar Panel c/w Bracket & 5
Metre Cable (other cable lengths available)

