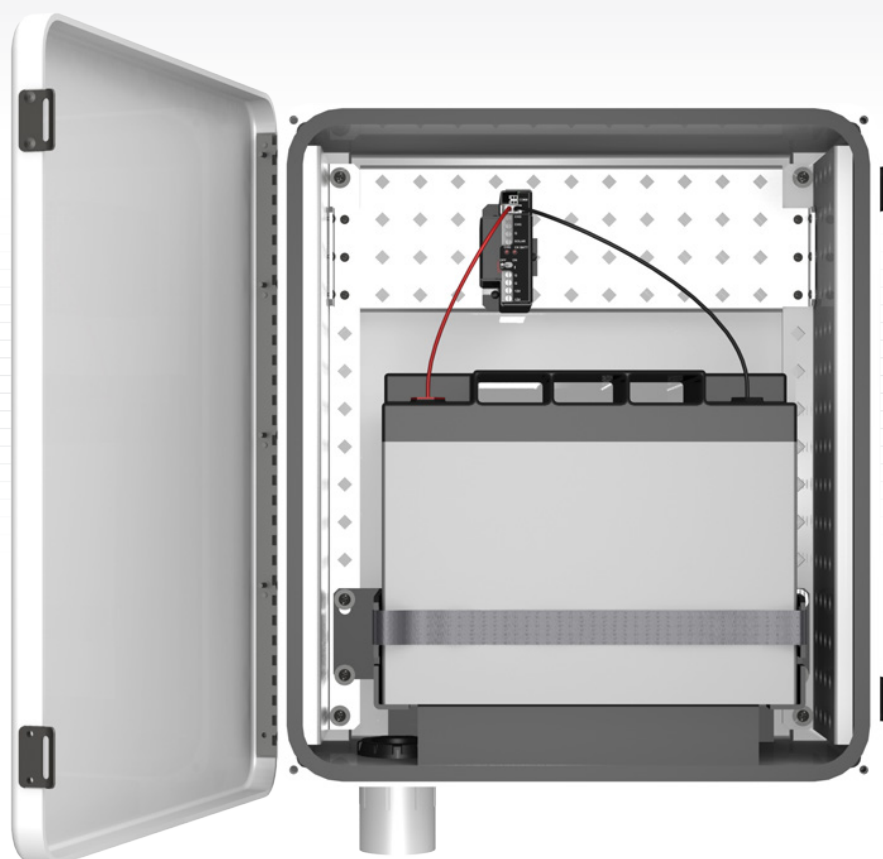




PS84 and BP84

84 A h Rechargeable Power Supplies



Overview

Campbell Scientific's BP84 and PS84 can power a system with larger power requirements. They are typically used when access to ac power is not available. Information about calculating power

usage is included in our Power Supply Overview brochure and Power Supply application note. Brochures and application notes are available from: www.campbellsci.com/documents

BP84 12 V Sealed Rechargeable Battery

The BP84 consists of a sealed rechargeable battery and bracket for mounting it to an enclosure backplate. The battery fits horizontally in the bracket. The BP84's sealed rechargeable battery has a nominal rating of 84 Ah. A regulated charging source (provided by the CH200 or 18529 Morningstar SunSaver-100 regulator connected to an unregulated solar panel) is required.

When used outdoors, the BP84 and regulator need to be housed in a larger enclosure (ENC16/18, ENC24/30, or ENC24/30S). The cable opening option for the ENC16/18 enclosure must be -SC, -VC, or -NC (not compatible with the -DC and -ES options).

PS84 12 V Rechargeable Power Supply

The PS84 is for situations where it is desirable to have the power supply housed in a separate enclosure. The PS84 consists of an 84 Ah sealed rechargeable battery, mounting bracket, two sideplates, one bridgeplate, and a 14 inch by 16 inch environmental enclosure. The battery fits vertically in the bracket leaving about four inches of head space above the battery to mount other items.

Either the CH200 Regulator (option -CR) or SunSaver Regulator (option -SR) is required to connect the battery to a charging source (typically an unregulated solar panel). The PS84 enclosure can have either one or two 1.5 inch diameter cable-entry conduits. Several options are offered for mounting the enclosure to a tripod or tower.

More info: 435.227.9120

www.campbellsci.com/bp84



Ordering Information

Power Supplies

- BP84** 12 Vdc Sealed Rechargeable Battery w/Mounts, 84 A h
PS84 12 Vdc, 84 A h Power Supply with 14 x 16 inch Enclosure

Enclosure Hole Options for PS84 (choose one)

- SC** One Conduit for Cable Entry
-DC Two Conduits for Cable Entry

Regulator Options for PS84 (choose one)

- NR** No Regulator (requires a user-supplied regulator.)
-SR Sunsaver Regulator
-CR CH200 Regulator

Enclosure Mounts Options for PS84 (choose one)

- NM** No Enclosure Mounting
-MM Tripod Mast Mounting
-LM Leg Base Mounting for CM1xx tripods
-TM Tower Mounting
-PM Pole Mounting for 4 to 10 in. diameter poles

Accessories

- 25660** A second PS84 Bridge Grid Plate allows additional equipment to be mounted above the first.
CH200 12 V Smart Charging Regulator for the BP84. Must order a battery cable (pn 6186 or pn 28524) to use with the BP84.
6186 10-ft, 20 AWG battery cable for connecting the BP84 to the CH200.
28524 3-ft, 18 AWG battery cable for connecting the BP84 to the CH200. Typically used when the BP84 and CH200 are in the same enclosure.
18529 Morningstar SunSaver-100 regulator for the BP84.



The 25962 is the 84 Ah battery included with the BP84 and PS84. It can be purchased separately as a replacement part.

Specifications*

- Output Voltage: 12 Vdc
- Nominal Capacity: 84 A h when discharged at a 24 hour rate
- Temperature Range: -40° to +71°C

Weight

- Battery Only: 25 kg (55 lb)
- Battery Only (shipping): 25.9 kg (57 lb)
- 18529 Regulator: 0.3 kg (0.6 lb)
- Either Mounting Bracket: 0.9 kg (2 lb)
- PS84 w/o Battery: 6.1 kg (13.5 lb)
- PS84 Sideplates: 0.5 kg (0.5 lb) each; two included
- PS84 Bridgeplate: 0.25 kg (0.5 lb); one included

Dimensions

- Battery Shipping Box: 20.3 x 33 x 35.6 cm (8 x 13 x 14 in)
- 18529 Regulator: 15.2 x 5.5 x 3.4 cm (6 x 2.18 x 1.32 in)
- BP84 Bracket: 7.6 x 22.9 x 27.9 cm (3 x 9 x 11 in)
- PS84 Bracket: 30.5 x 14.5 x 33 cm (4 x 6 x 13 in)
- PS84 Sideplates (each): 3.8 x 12.7 x 38.1 cm (1.5 x 5 x 15 in)
- PS84 Bridgeplate: 3 x 10 x 32 cm (1.25 x 4 x 13 in)
- PS84 Enclosure (internal): 35.6 x 40.6 x 15 cm (14 x 16 x 5.9 in)
- PS84 Enclosure (external): 39.4 x 44.5 x 15.7 cm (15.5 x 17.5 x 6.2 in)



At left is a PS84. It includes a Sunsaver regulator mounted to a sideplate (option -SR), the battery bracket mounted to both sideplates (option -DC), and two cable conduits (option -VC). The battery is not shown (see top photo).

At right is a BP84 bracket mounted inside of an ENC16/18 enclosure with a left sideplate (option -LB) and two vertical cable conduits (option -VC). The regulator is often mounted on the sideplate.



*Specifications for the CH200 are provided in the CH200 Smart Charging Regulator and PS200 Smart Charging Power Supply product brochure.



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