

PS84 and BP84

84 Ahr Rechargeable Power Supplies

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.

BP84 12 V Sealed Rechargeable Battery

The BP84 consists of a sealed rechargeable battery and bracket for mounting it to the backplate of an ENC16/18 enclosure. The battery fits horizontally in the bracket. The BP84's sealed rechargeable battery has a nominal rating of 84 ampere hours. A regulated charging source (typically provided by the 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 an ENC16/18 enclosure. The cable opening option for the ENC16/18 enclosure must be -SC, -VC, or -NC (not compatible with the -DC and -ES options).

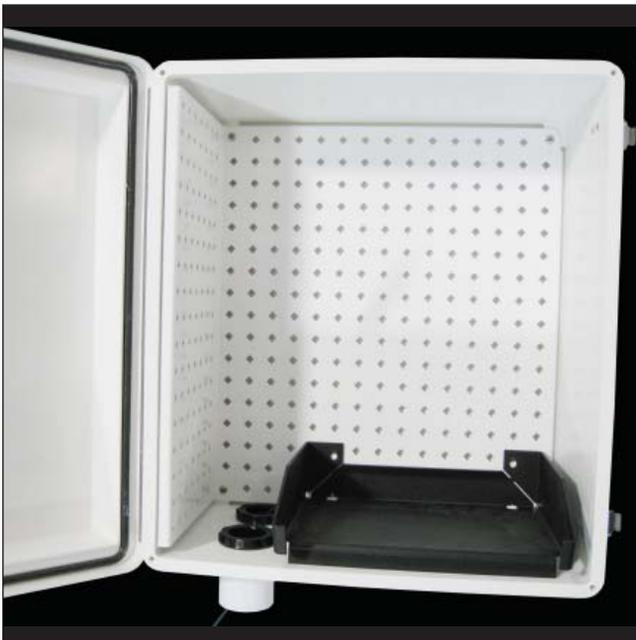
PS84 12 V Rechargeable Power Supply

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 ampere hour sealed rechargeable battery, mounting bracket, two sideplates, one bridge-plate, and a 14" x 16" environmental enclosure. The battery fits vertically in the bracket leaving about 4" of head space above the battery to mount other items.



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

Either the SunSaver Regulator (option -SR) or a user-supplied regulator 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" diameter cable-entry conduits. Several options are offered for mounting the enclosure to a tripod or tower.



The BP84 bracket is mounted inside an ENC16/18 with a sideplate (option -SB) and two vertical cable conduits (option -VC). It is convenient to mount the 18529 SunSaver regulator on the sideplate.



The PS84 comes with the SunSaver regulator mounted to one sideplate and the bracket mounted to both sideplates. The above PS84 has cable entry option -DC. The battery is not shown (see top photo).

Ordering Information

Power Supplies

BP84	12 V Sealed Rechargeable Battery w/Mounts, 84 Ahr
PS84	12 V, 84 Ahr 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 (order only if you want to use your own regulator).
- SR** SunSaver Regulator (recommended)

Enclosure Mounts Options for PS84 (choose one)

- NM** No Enclosure Mounting
- MM** Tripod Mast Mounting
- LM** Leg Mounting for CM110-series light-weight tripods
- TM** Tower Mounting

Accessories

25660	PS84 Bridge Grid Plate allows small peripherals to be mounted inside the PS84 enclosure above the battery.
18529	Morningstar SunSaver-100 regulator is recommended when using the BP84.

Specifications*

Output Voltage:	12 Vdc
Nominal Capacity:	84 Amp hours when discharged at a 24 hour rate
Temperature Range:	-40° to +71°C
Weight	
Battery Only:	55 lbs (25 kg)
Battery Only (shipping):	57 lbs (25.9 kg)
18529 Regulator:	0.6 lbs (0.3 kg)
Either Mounting Bracket:	2 lbs (0.9 kg)
PS84 w/o Battery:	13.5 lbs (6.1kg)
PS84 Sideplates:	1 lb (0.5 kg) each; two included
PS84 Bridgeplate:	0.5 lbs (0.25 kg); one included
Dimensions	
Battery Shipping Box:	8" x 13" x 14" (20.3 x 33 x 35.6 cm)
18529 Regulator:	6.0" x 2.18" x 1.32" (15.2 x 5.5 x 3.4 cm)
BP84 Bracket:	3" x 9" x 11" (7.6 x 22.9 x 27.9 cm)
PS84 Enclosure (internal):	14.0" x 16.0" x 5.9" (35.6 x 40.6 x 15.0 cm)
PS84 Enclosure (external):	15.5" x 17.5" x 6.2" (39.4 x 44.5 x 15.7 cm)
PS84 Bracket:	4" x 6" x 13" (10.5 x 14.5 x 33 cm)
PS84 Sideplates (each):	1.5" x 5" x 15" (3.8 x 12.7 x 38.1 cm)
PS84 Bridgeplate:	1.25" x 4" x 13" (3 x 10 x 32 cm)

*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

