

PowerStream

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The BP200 consists of a tough padded nylon-canvas fabric bag that contains the battery and wiring for charging and discharging. The sealed lead acid battery can be charged or discharged in any position and is completely non-spillable. The charger is in a pouch and can be left home if you don't want to carry it.

For example, when the portable battery is used with your cell-phone car charger attached the BP-200 can run a typical cell phone for 150 times longer than the battery in the phone, or charge the phone 100-150 times.

Special Features :

7.5 to 22 Amp-Hour (depending on model selected), 12 Volts lead acid rechargeable battery may be operated in any position. Automatic overcharge protection

Directly power devices designed to plug into a car power point or cigarette lighter, such as laptops, games, cell phone chargers, GPS, palmtop computers, flashlights, cellular "bag" phones, heated clothing, sports scoreboards, sleep apnea or 12 volt model car chargers.

For added flexibility use our regulated DC/DC car power adapters for voltage outputs from 1.5 volts to 24 volts. This will allow unlimited use of electronic products such as games, CD players, walkmans, scoreboards, video cameras, MINI TVs, and heated clothing.

Battery portable power supply perfect for OEM sales, modifications are available, for example with built-in DC converter, DC charger, or AC inverter. The certified non-spillable lead acid batteries supplied by PowerStream are qualified for flight on commercial airlines.

How to use

Charging

The battery should be charged as soon as the BP200 is received. These batteries last longest when they are fully charged as much as possible. Lead Acid batteries do not suffer from memory effect, they prefer not to be fully discharged, and will give longer life with shallow discharges.

Charge the battery as soon as you can after use.

It is best to use an approved PowerStream battery charger, such as the one included with the BP200. The PST-3PA3015RB charger is designed to be connected to the battery pack continually (if desired). It has the correct connector and the correct connector polarity (positive center). It also has a rejuvenation function that is useful if the battery is inadvertently left uncharged for weeks or month and becomes sulfated. It cannot revive every battery, but it can revive many sulfated batteries.



Position of the charging flap

Under emergency situations it is possible to unzip the top of the bag to reveal the battery terminals and charge the battery with a charger equipped with alligator clips. Even a 12 volt car charger can be used in this way, though a charge current less than 6 amps will be kindest to the battery service life. Be very careful not to reverse the terminals, the positive or red clip should connect to the positive or red terminal of the battery.



Connecting the charger.

When the normal charging port is used the 15 amp circuit breaker can protect the wiring from a short circuit. If the normal charging port is not used there is no short circuit protection during the charging process.

The charging socket is on top, the circuit breaker on the bottom

The charger can be stored in the pocket supplied or left home if you don't want to carry it with you.



Discharging

The discharge port of the BP200 is a cigarette lighter socket as is found in cars and trucks. This allows easy use of equipment that is made to operate in a car.

Keep the rubber plug inserted in the socket when an attachment is not plugged in. This will prevent metal objects from falling into the socket and causing a short.

The output socket is protected by the 15 amp circuit breaker. If the breaker actuates it can be reset by lifting the charging flap and pressing the button. It does not necessarily "click" when it resets.

Battery

Replacing the battery

The battery included in the BP200 is a sealed lead acid battery, non spillable. It should be replaced only with another SLA, Gel, VRLA, or AGM battery. Motorcycle batteries are not suitable because they are not always leakproof, and they are not designed for deep discharge.



Model Number	Battery
PST-BP200-HR22	Uses the HR22-12 battery
PST-BP200-EB20	Uses the EB20-12 battery
PST-BP200-BP17	Uses the BP17-12 battery
PST-BP200-BP12	Uses the BP12-12 battery
PST-BP200-BP10	Uses the BP10-12 battery
PST-BP200-BP7.5	Uses the BP7.5-12 battery

Model Number	PST-BP200-xxx
AC Charger	2 amp smart charger may be left on the battery continuously for back up purposes. The charger includes a rejuvenation function.
Peak Output Current	15.0 Amps (limited by a 15amp circuit breaker)
Output Voltage Nominal	12 volts
Capacity	See battery option table below
Output Voltage Range	13.8-10 volts as battery discharges See DC/DC converter options below
Dimensions	7.5 x 7.5 x 5.25 inches 190 mm x 190 mm x 130 mm
Weight	See battery option table below

Battery options	EP20-12	HR22-12	BP 17-12	BP 12-12	BP 10-12	BP 7.5-12
Amp-Hours	20 AH	22 AH	17 AH	12A H	10 AH	7.5 AH
Cycle life	500 cycles	300 cycles	300 cycles	300 cycles	300 cycles	300 cycles
Charge time with included intelligent charger	10 Hours	11 Hours	8.5 hours	6 hours	5 hours	4 hours
Weight including bag	15 lbs, 6.8 kg	15.1 lbs, 6.85 kg	14.4 lbs, 6.5 kg	9lbs 4.1 kg	7lbs 3.5 kg	6lbs 3.1 kg

Note: Cycle life based on 50% depth of discharge at 25°C, battery considered finished when 60% of remaining recoverable capacity. for 100% depth of discharge (to 10.5 volts) the cycle life will be half. To achieve these cycle lives the battery must be kept at full charge when not in use. The included battery portable charger is designed to accurately and safely charge and maintain the battery and may be left connected to the battery continuously if desired for standby purposes.

Power Drawn from Battery (Watts = Amps*Volts)	Continuous Running Time EP20-12	HR22-12	BP17-12	BP12-12	BP10-12	BP7.5-12
1 watt	240 Hours	264 Hours	204 Hours	144 Hours	120 Hours	84 Hours
5 watts	48	53	41	29	24	17
10 watts	24	26.4	20	14.4	11.2	7.4
15 watts	16	17.5	13	9.1	6.7	4.7
20 watts	11.4	13.2	9.5	6	5	3
30 watts	7.2	8.8	5.7	3.5	2.9	1.9
60 watts	3.4	3.8	2.8	1.5	1.2	0.9
90 Watts	2	2.2	1.37	1	0.8	0.5
120 watts	1.2	1.3	1	0.6	0.53	0.3

Warranty: The battery charger has a 1 year warranty. The battery and bag are guaranteed to be free of manufacturing defects.