



SELF-HELP GUIDE

Back-up Power for Bilevels

Bilevels are powered primarily by plugging the power cord into a wall outlet, otherwise known as AC power. When there is a power outage, bilevels will not receive power from the wall outlets.

This document provides information about available back-up power systems for PROP bilevels.

Clients Responsibility

PROP does not supply back-up power systems. It is the clients' responsibility to create their own Emergency Preparedness Plan, including a back-up power system. PROP will be glad to assist you with any questions you may have after reading through this document.

Emergency Preparedness Plan

All PROP clients MUST have an "Emergency Preparedness Plan" in-case of a power outage. This is very important for PROP clients who depend on their bilevel. You can estimate how long the power outage may last by contacting BC Hydro at 1-888-769-3766. If BC Hydro expects the power to be out longer than you can be without your bilevel, you may need to go somewhere not affected by the power outage.

Your emergency preparedness plan should include a facility with a back-up power source (ie: emergency power generator). You need to discuss their availability during your planning, but some possible solutions may include; police station, fire station, hotel, and/or hospital.

Options for Back-up Power

1) External battery packs

External Battery Pack with outlets: An external battery pack should be kept charged to maximum capacity, so it is ready to power your bilevel in the event of a power outage. It can also be used for an extended period of time away from home where AC power is not available.

An external battery pack is a portable device that contains a battery and electronics that produce AC and/or DC power. There are different sizes and capacities of external battery packs available, so you need to pick the right one for your needs. It is recommended you purchase one that you think will work, take it home and test it using your bilevel, and if it doesn't last long enough, exchange it for a more suitable external battery pack.





Your external battery pack must be rated more than 300 watts to power your bilevel. How long an external battery pack will last depends on several factors:

- battery type/size
- age of the battery
- bilevel settings.

*If you need assistance, please consult the PROP Biomed Dept. for selecting an appropriate size external battery pack for you.

Some external battery packs require monthly discharging to keep it in good condition. Please follow manufacturer instructions.

Table 1. External Battery Packs

Examples of External Battery Packs Currently Available(Dec 2014)	Where to Buy	Approx. Cost	Capacity	Can Humidifier Be Used?
	Canadian Tire	\$ 200	20 Ah	<p>Yes: System One, Bipap A40, Air-Curve 10</p> <p>No: Synchrony, Harmony, VPAP III ST-A, Stellar 150</p>
	Wal-Mart	\$ 180	18 Ah	<p>Yes: System One, Bipap A40, Air-Curve 10</p> <p>No: Synchrony, Harmony, VPAP III ST-A, Stellar 150</p>
	Online	\$ 180	26 Ah	<p>Yes: System One, Bipap A40, Air-Curve 10</p> <p>No: Synchrony, Harmony, VPAP III ST-A, Stellar 150</p>
	Best Buy (Online only)	\$ 170	17 Ah	Yes: All Bilevels

The length of time the external battery pack lasts depends on the battery capacity and individual respiratory settings. To determine how long the external battery pack will last:

- Charge up external battery pack to maximum capacity. Then, unplug it from wall outlet so it is an independent power source.
- Plug your bilevel into one of power outlets of the external battery pack, start using your bilevel, and note the start time.
- Continue using the bilevel until it stops running. Note the end time.
- The length of time your external battery pack battery is expected to last is the time elapsed between the Start Time and the End Time.

CAUTION: As the external battery pack’s battery ages and/or your respiratory needs change, you will receive varying back-up power time from the pack. Please repeat this test monthly.

2) Gas-Powered Generator

A portable generator is a gasoline operated device which produces electricity. You can plug your bilevel into its built-in AC power outlets. This is an effective back-up power source if there is outdoor space to operate a gas generator. You will need a heavy duty extension cord to plug your bilevel into the generator located outside.

WARNING: Gas-powered generators must be outdoors. Carbon monoxide poisoning is fatal.

Table 2. Gas Generators

Examples of Gas Generators Available (Dec 2014)	Where to Buy	Approx.Cost	Can Humidifier Be Used?
 <p>Ramsond Sinemate 1500 Portable Pure Sine Wave Inverter Generator</p>	eBay.ca	\$460	Yes: All Bilevels

3) Vehicle Battery via 12V DC Power Source (aka Cigarette Lighter Port)

It is possible to power your bilevel with your vehicle’s battery, via the vehicle’s 12V DC power source. Your car battery can power your bilevel while you travel to a location unaffected by the power outage. PROP has 12V car adaptors for some bilevel units, please check with us to see if we have one for your bilevel unit.




If a 12V car adaptor is unavailable for your bilevel, you will need a DC to AC inverter, which you connect to your vehicle’s 12V DC power source. As long as you have gasoline in your tank, and you keep your vehicle’s battery charged, your car battery can provide power for your bilevel. (be sure to run your vehicle occasionally to charge the vehicle’s battery)

WARNING: DO NOT leave your car running in a garage. Carbon monoxide poisoning is fatal.

WARNING! DO NOT USE HUMIDIFIER IN A VEHICLE

There is a higher chance of water spilling into the bilevel unit when used in a vehicle. If water gets inside the bilevel, it could damage the bilevel.

Table 3. Power Inverters

Examples of Power Inverters Available (Dec 2014)		Where to Buy	Approx. Cost	Power	Can Humidifier Be Used?
	CAT 1000Watt Power Inverter	Canadian Tire	\$ 150	1000 Watt	<p>Yes: System One, Bipap A40, Air-Curve 10</p> <p>No: Synchrony, Harmony, VPAP III ST-A, Stellar 150</p>
	Cobra 1500Watt Power Inverter	The Source	\$ 200	1500 Watt	<p>Yes: System One, Bipap A40, Air-Curve 10</p> <p>No: Synchrony, Harmony, VPAP III ST-A, Stellar 150</p>
	Samlex 12V Modified Sine-Wave Inverter	RP Electronics	\$ 190	1000 Watt	Yes: All Bilevels