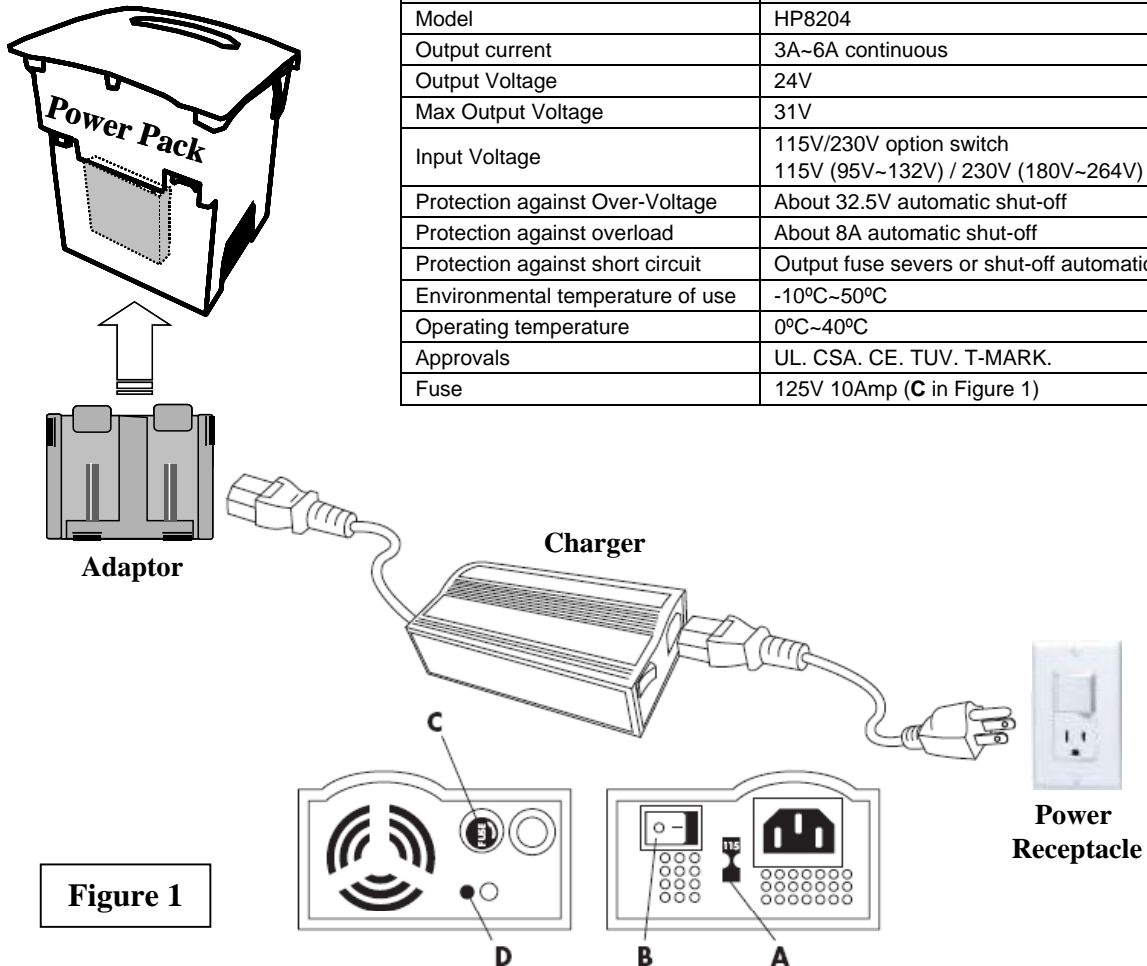


External Charger Instructions

Specifications

Item	Specification
Model	HP8204
Output current	3A~6A continuous
Output Voltage	24V
Max Output Voltage	31V
Input Voltage	115V/230V option switch 115V (95V~132V) / 230V (180V~264V)
Protection against Over-Voltage	About 32.5V automatic shut-off
Protection against overload	About 8A automatic shut-off
Protection against short circuit	Output fuse severs or shut-off automatically
Environmental temperature of use	-10°C~50°C
Operating temperature	0°C~40°C
Approvals	UL. CSA. CE. TUV. T-MARK.
Fuse	125V 10Amp (C in Figure 1)



Operating Instructions

1. Adjust the voltage switch (115V or 230V) to the correct settings (**A** - see Figure 1).
2. Connect the charger to the Power Pack - position the adaptor, arrows up and toward you, at the bottom of the Power Pack, just below the metal contacts of the Power Pack. The adaptor will fit almost flush with the Power Pack and will be centered below the power pack contacts, using the ribs located on the Power Pack as a guide for the proper position. Gently slide the adaptor upward in the direction of the arrows, until it is fully mated with the Power Pack contacts and stops, unable to slide upward any more.
3. Plug the power cord into the power receptacle.
4. Turn on the power switch (**B** - see Figure 1), the fan will begin to run and the charging LED will turn yellow.
5. When finished charging, a green light will indicate that the Power Pack is fully charged. Between uses, it is suggested to leave the charger connected, even after the charge process is completed, it will not damage the power pack or the charger.
6. To remove the Power Pack, switch off charger before disconnecting from Power Pack - gently slide the adaptor downward, until the adaptor contacts and Power Pack contacts are no longer mated.

Light Indications (D in Figure 1)

Red	Power On
Yellow	Charging
Green	Fully Charged

During the charging process the charging LED may blink alternately between the yellow and the green around 1~60 seconds, please note this is a normal feature.

Safety & Important Information

- a) Charge only GEL and Sealed Lead Acid (SLA) rechargeable type batteries with this unit.
- b) Only use the specified rated fuses.
- c) The charger will become warm during charging.
- d) Charge in well ventilated areas and do not cover or place item on the Charging Unit.
- e) Use indoors only and in dry areas.
- f) Use at temperatures above 32°F (0°C) and below 120°F (50°C).
- g) In the winter, fully charge and store Power Pack in room temperature area. Recharge once more in the middle of the winter. **DO NOT** charge constantly during the off season/winter time. Once every three months is recommended.
- h) Keep area clear while charging and position cords to prevent damage to the cord and to prevent trip hazard.
- i) Use only with the original intended battery.
- j) Never use a charger with a damaged cord.
- k) Misuse of charger could result in fire or damage of batteries.

Although this advanced charger has auto-cut off it is not recommended to leave switched on for prolonged periods.

The batteries should be charged after every operation to ensure longevity of life.

Troubleshooting

- a) **Switching on the charger power but no LED light up**
 - Confirm that the charger cord is plugged into the mains supply.
 - Ensure that the mains supply is turned on.
 - Test that the main socket is working by plugging another appliance.
 - Check the fuse (**C** – Figure 1).
 - Check for short circuit in the wire from the adaptor to the Power Pack.
- b) **Switching on the charger power, red LED is up, green LED flashes but there is no charging**
 - Check if the fuse has severed.
 - Check the connection between the adaptor and the Power Pack.
 - Battery polarity is wrong.
 - Check the connection to the battery and the battery wires connection (inside the case).
- c) **The charging time continues for a long duration**
 - Battery is damaged.
 - The battery is coming to the end of its natural life.