

OPERATING INSTRUCTIONS FOR DELTA BASE AND DELTA 3 FAST CHARGERS

Thank you for purchasing a Pro-Peak Delta Fast Charger. You've chosen one of the best, affordable, peak-detection, fast chargers available to modellers today. Please read through these Operating Instructions to familiarise yourself with your new Pro-Peak Delta Fast Charger.

These Operating Instructions cover the following Pro-Peak Delta Base and Delta 3 Fast Chargers: O-IP1501, O-IP1501/EUR, O-IP1506 and O-IP1506/EUR. Specifications, features and usage are the same for all variations unless otherwise noted.

SPECIFICATIONS AND FEATURES

- Input Voltage: 110v~240v AC or 12v~14.4v DC (AC/DC Models Only)
- Output Voltage: 4.8v~9.6v (4 Cell~8 Cell) Ni-Cd or Ni-MH
- Output Current: 0.5/1.0/2.5A Delta Base or 2.0/3.5/5.0A Delta 3
- Operating Temperature: 0~40 Degrees Celsius / 32~104 Degrees Fahrenheit
- Universal Short Circuit Protection
- AC/DC Inputs (Depending on Model)
- Cooling Fan (Delta 3 Model Only)
- Automatic Cell Type and Count Selection
- Auto-Adjusted Input Voltage 110v~240v
- User-Switchable 0.5/1.0/2.5A Charge Rates (Delta Base)
- User-Switchable 2.0/3.5/5.0A Charge Rates (Delta 3)
- Fast or Trickle Charge 4~8 Ni-Cd or Ni-MH Battery Packs
- Negative Delta (-D) Peak Fast Charge Termination
- Auto Trickle Charge Following Fast Charge
- LED Charge Indicators
- Includes Wiring Harness for Transmitter, Receiver and JST Connectors
- 12v DC Input Leads with Crocodile Clips

SAFETY WARNINGS

- If using the included wiring harness, you can use only one charge lead at a time. Never attempt to charge multiple battery packs at one time.
- This charger is designed to charge 4.8v~9.6v Ni-Cd or Ni-MH battery packs ONLY. Never attempt to charge any other type of battery, such as gel cell, lead-acid, Lithium or Alkaline batteries.
- Never connect the AC power and the DC power input lead at the same time and never allow the DC crocodile clips to touch or short out.
- When the charger is connected to a car battery (12v DC power source) do not start the car's engine. The engine can be running during the charging process, but starting or turning off the engine during the charging process can damage the charger and/or your battery pack.
- Never use the charger inside your car. Always use the charger, even when connected to your car's battery, outside of your car.
- Never allow the charger to become wet. Do not use the charger if it becomes wet or otherwise exposed to water or other liquids.
- Do not allow children to use the charger without adult supervision.
- Never leave the charger connected to a power source when not in use.
- Never leave the charger unattended when the charger is in use.
- Never place the charger on a carpeted surface during use.
- Always disconnect the battery pack from the charger if the battery pack becomes unusually warm or hot.
- Avoid using the charger in direct sunlight. Direct sunlight can cause the charger to overheat.
- Always check the battery pack's polarity & condition before connecting it to the charger.
- If using the charger to charge a transmitter battery pack, you must remove the battery pack from the transmitter first. Do not attempt to charge the battery pack while still in the transmitter.
- Always allow the battery pack to cool before recharging it.

USING YOUR DELTA FAST CHARGER

IMPORTANT If charging from a 12v DC power source (such as a car battery), the charger will charge only 4~7 cells. To charge up to 8 cells, the charger must be connected to a 14.4v power source (such as a dedicated power supply). An 8 cell battery pack peaks at more than 12 volts, therefore, if the input voltage is less than 12 volts, the battery pack will never peak.

1) If charging from an AC power source, plug the AC input connector into your AC power source. If charging from a DC power source, first plug the DC input adapter lead into the matching socket in the end of the charger, then attach the two crocodile clips to your DC power source. Attach the red (+) crocodile clip to the positive (+) terminal on your DC power source, then attach the black (-) crocodile clip to the negative (-) terminal on your DC power source. Once connected to a power source, the LED will blink RED once, then go out.

WARNING Never connect the charger to an AC power source and a DC power source at the same time. Use only one power source at a time.

2) Select a charge rate using the charge rate selection switch on the side of the charger (Delta Base) or on the end of the charger (Delta 3). Use the guide below to determine the appropriate charge rate.

3) Plug your battery into the charger output lead. If you are using the included wiring harness, first plug the wiring harness into the charger output lead, then plug your battery into the desired wiring harness lead. The battery begins charging as soon as it's plugged into the charger output lead. When the battery is charging, the LED will glow RED.

IMPORTANT If the connector on your battery is different from the connector on the charger output lead, you will need to change the connector on the output lead. If you do, double-check that the polarity is correct when you install your new connector.

4) When the battery pack is charging, the LED will glow RED. When the charging process is completed, the LED will glow GREEN, indicating that the battery pack is fully charged and the charger is in Trickle Charge Mode.

5) When the charging process ends (LED glows GREEN), unplug your battery pack from the charger, then unplug the charger from your power source.

WARRANTY AND SERVICE INFORMATION

Your Pro-Peak Delta Fast Charger is guaranteed to be free of workmanship and component error for a period of 1 year starting from the original time of purchase. Warranty claims must be accompanied by an itemized sales receipt that shows the purchase date. This warranty does not affect your statutory rights.

In that Pro-Peak has no control over the final use of this product, by installing and using the product, the user accepts all liability resulting from or included with the installation and use of this product. In no instance will the liability cost of the charger exceed the original purchase price of the charger.

We recommend choosing a charge rate for Ni-MH battery packs that is close to the battery packs' rated mAh capacity (e.g., charge a 2000mAh Ni-MH battery pack at no more than 2 amps). For Ni-Cd battery packs, we recommend choosing a charge rate that is 1~3 times the battery packs' rated mAh capacity (e.g., charge a 1400mAh Ni-Cd battery at 2~4 amps). Note that not all Delta Fast Chargers can output the charge rates shown. Choose the nearest charge rate your model charger supports, bearing in mind the above recommendations.

Maximum Ni-Cd Charge Rates Maximum Ni-MH Charge Rates

100-900mAh -- 0.5A~1.0A	100-900mAh -- 0.5A~1A
1000mAh ----- 2.5A	1000mAh ----- 1A
1200mAh ----- 2.5A	1200mAh ----- 1A
1400mAh ----- 3.5A	1400mAh ----- 1A
1600mAh ----- 5A	1600mAh ----- 1A
1800mAh ----- 5A	1800mAh ----- 1A
2000mAh ----- 5A	2000mAh ----- 2A
2400mAh ----- 5A	2400mAh ----- 2A
2800mAh ----- 5A	2800mAh ----- 3A
3000mAh ----- 5A	3000mAh ----- 3A

Sample average charge time for a 1600mAh battery charged at:

- 1.0 Amp is ~96 minutes
- 2.0 Amps is ~48 minutes
- 3.5 Amps is ~27 minutes

IMPORTANT Battery packs may be charged at different rates depending on the manufacturer's suggestions. The table above is for general reference only.

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