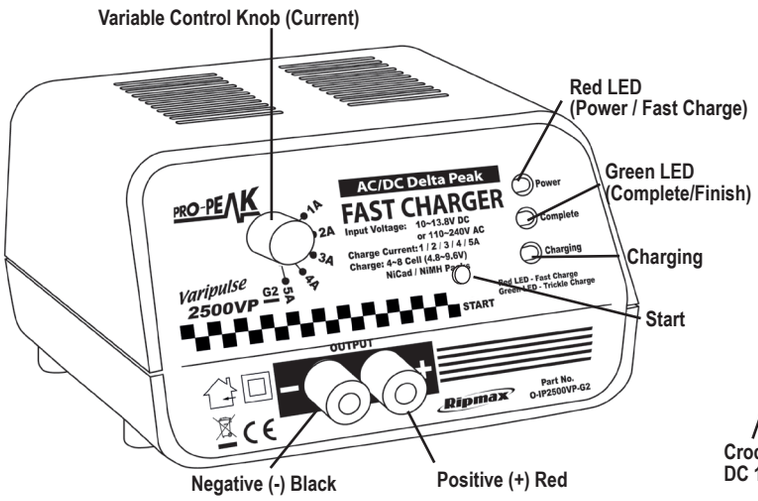
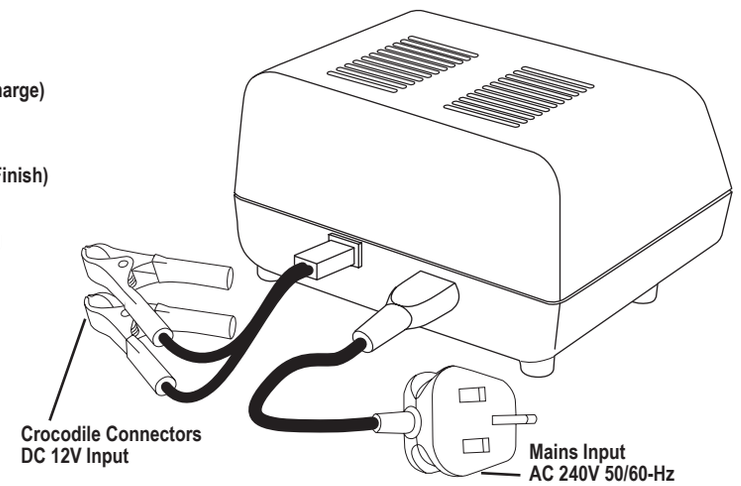
PRO-PEAK 2500VPG2 AC/DC Delta Peak Charger **Item No. O-IP2500VPG2**

Dear Customer

Thank you for purchasing this Pro-Peak 2500 VPG2 AC/DC charger, we are sure you will be pleased with its performance. In order to ensure you obtain the maximum from its operation, please read the following instruction manual carefully. Should there be any aspects of it you do not understand, please contact your point of purchase or Ripmax customer services for advice





EXTREMELY IMPORTANT - READ BEFORE USING CHARGER - SAFETY PRECAUTIONS

- This Pro-Peak charger is **NOT** suitable for children under 14 years of age.
- **ONLY** charge rechargeable type Ni-Cad & Ni-MH battery packs. Never charge other battery types. When quick charging, **ONLY** charge suitable 'Quick Charge' Ni-Cad or Ni-MH battery packs. **DO NOT** charge other types of pack.
- **DO NOT** mix old and new cells or cells of different makes.
- The charging of batteries creates **HEAT**. Both the Pro-Peak charger and the battery pack will become **WARM** during charging, this is normal. **DO NOT** place the charger or battery pack on any surface that can be affected by heat. Always charge on a heat resistant surface.
- Always ensure the charger and battery pack have adequate ventilation around them.

  DO NOT charge in an enclosed space.
- **DO NOT** cover charger ventilation openings.
- If the battery pack becomes extremely hot - untouchable - discontinue charging immediately. The battery pack may be defective. Consult your dealer or Ripmax Customer Service.
- The battery to be charged should be at room temperature before charging. **DO NOT** charge a **HOT** battery pack.
- Allow charger to cool down for 10 minutes after 2 consecutive quick charges.
- **ALWAYS** follow charging instructions.
- **ALWAYS** remove battery pack from device (car, boat etc.) before charging.
- **NEVER** charge batteries inside their device or with the device switched on.
- **NEVER** charge 2 battery packs in parallel.
- **NEVER** allow the charger in close proximity to water. If charger becomes wet, leave overnight in a warm environment to dry. **Connection if wet, is life threatening.**
- **NEVER** dismantle charger. Service or repair should only be carried out by authorised personnel. Contact your dealer or Ripmax for service/repair information.
- Battery and charger should be monitored whilst charging takes place. **DO NOT** leave unobserved (possible risk of fire).

CONNECTIONS

The Ripmax Pro-Peak 2500 VP G2 charger has two types of Power Input. Mains AC 220-240V (50/60Hz) or 12V DC via an alternative power source, such as a battery or 12V output power supply. These two power inputs allow charging at home or at the place of operation. **Under no circumstances should the two Power Inputs be connected at the same time. The charger is designed for individual Power Input operation.**

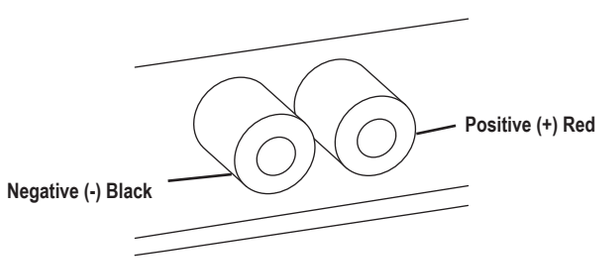
MAINS AC 220-240AV CONNECTIONS

- Connect the mains lead to a wall socket.
- Turn 'ON' the mains wall socket and the 'RED' LED will flash every 2 seconds to indicate power to the charger, and the charger is ready for use. Turn 'OFF'.
- If the 'RED' LED does not flash, this indicates that no power is reaching the charger. Check the fuse in the mains lead plug. Spare fuses can be purchased from most electrical shops. Only use a fuse with the correct rating, 250V 3A, otherwise damage may occur to the charger. This will not be covered under warranty.

OUTPUT CONNECTIONS

- The Pro Peak 2500 VP G2 uses standard 4mm gold banana type connectors.
- Please ensure you connect the plugs to the charger using the correct polarity as shown in the following diagram.

- Red connector = Postive (+)
- Black connector = Negative (-)



DC 12V INPUT CONNECTION

- Using the two Crocodile Clips on the end of the fixed lead exiting at the rear of the charger, connect the 'RED' clip to the Positive (+) connection of the power source (i.e. battery etc.) and the 'Black' clip to the Negative (-) connection.
- Once connected the 'RED' LED will flash every 2 seconds to indicate the charger is ready for use. Under no circumstances reverse the crocodile connections or attempt to connect the DC crocodile clips to a 220~240v AC 60Hz power source. This will result in serious damage to the charger, not covered under warranty, and possible electrocution.

OPERATION - FAST CHARGING

- Turn 'ON' the mains power.
- Connect the battery to be charged to the OUTPUT charge lead. When the battery is connected the flashing 'RED Ready to use' LED will go out and the Continuous 'GREEN', trickle charge LED will turn 'ON'. The charger is now 'Trickle charging'.
- Trickle Charging is the charging of a battery at a low charge rate (130mAh) so that it is charged slowly over a longer period of time. It is also used to charge lower capacity or non-quick charge batteries where fast charging will damage them.
- To begin Fast Charging, press the start button a 'BLEEP' will be heard. The 'RED' fast charge LED will light, and both the RED and the GREEN LED's will glow continuously, to indicate that fast charging is taking place.

  Fast charging will commence at the maximum charge rate, adjusting as the charge continues. It will automatically shut 'OFF' at the end of the charge cycle, when the battery is fully charged, using its delta peak, maximum charge, detection circuit.
- At the end of the Fast Charge cycle the charger will begin Bleeping - 4 'Beeps' repeated 16 times. The 'RED' LED will then go 'OUT', the 'GREEN' LED will continue to glow to indicate the charger has returned to trickle charging.
- To stop the 'Bleeping' at the end of the charge push the start button again.

Operation cycle is as follows:

Power Connection:	- 'flashing RED'
Battery Connection:	- 'continuous GREEN' - 'Trickle Charging'
Press START:	- 'Bleep' - 'continuous RED/GREEN' - 'Fast Charging'
End of Fast Charge:	- 'Bleeps'- 'continuous GREEN'-'Trickle Charge'
Push START:	- 'Bleeping Stops'
Disconnect Battery:	- 'flashing RED' - 'Power Connected'

OPERATION - STOP CHARGING

- To STOP charging at any time disconnect the Battery being charged.

ALARM/ERROR MESSAGES

1. **Output Disconnection**
   If the output connections become disconnected, not allowing the charge cycle to be completed, charging will stop and the charger will start 'Bleeping' continuously. Press the Start button to stop the bleeping, reconnect the output lead and start the charge cycle again.
2. **Low Input Voltage**
   If DC input voltage drops while quick charging, the Trickle LED will start to blink. If the input voltage drops to the same level as the output voltage, the charger automatically perceives an 'Error' and continuous 'Bleeping' commences.
3. **Battery Short Circuit**
   To establish a battery short circuit, 10sec. after quick charging commences the Pro-Peak 2500 VP G2 checks the battery voltage. If the voltage is detected as 0 volts, the charger automatically discontinues quick charging and starts 'Beeping'.

REVERSE POLARITY CONNECTION

1. **Reversed Input Polarity**
   If the DC input polarity is connected the wrong way round the 'RED' power LED will not light. Reconnect the correct way round.
2. **Reversed Output Polarity**
   If the battery to be charged is connected with its Polarity reversed or the charge leads are incorrectly connected, the 7.5A Fuse on the front of the charger will blow. Disconnect the battery from the charger, replace the Fuse and reconnect the battery with the correct polarity.

TRANSMITTER (TX) CHARGING (AC ONLY)

The Pro-Peak 2500 VP G2 charger can be used to charge Transmitter (Tx) batteries. This can only be done using AC mains input power. It is recommended to only trickle charge Tx batteries.
DO NOT UNDER ANY CIRCUMSTANCES QUICK CHARGE TX BATTERIES WHILE THEY ARE STILL IN THE TRANSMITTER

- Connect a Tx charge cable to the charger output socket.
- Connect the Tx charge cable to the charge socket on the transmitter, the 'Green' trickle LED will light continuously to indicate trickle charging.

DO NOT PRESS START BUTTON.

- Trickle charging is a continuous function of the Pro-Peak 2500 VP G2 indicated by the 'GREEN' LED glowing continuously, so it is not necessary to start the trickle charge operation.

Suggested Tx pack Trickle Charge Times: 500mAh - 5.5hrs, 600mAh - 6.5hrs, 700mAh - 7.5hrs.

TIMER

- In case the battery is unsuitable for quick charging, the battery is damaged in some way or the battery capacity is too great, all of which could result in an excessive charge time, the charger will automatically shut down using an internal timer after 1 hour.

CE APPROVED

This product satisfies all the relevant and mandatory CE directives.
The design and manufacture of this product therefore meets all the all the EC requirements for the safe operation of electrical equipment.

TECHNICAL DATA

Input:	AC 220~240V (50/60Hz), DC 12V.
Output:	Fast - DC 4.8~9.6V 3.5A (230V AC 50Hz Input) Fast - DC 4.8~8.4V 3.5A (DC 12V Input) Trickle - DC 4.8~9.6V 130mA (230V AC 50Hz Input) Trickle - DC 4.8~8.4V 130mA (DC12V Input)
Battery Type:	Rechargeable Fast Charge Nickel Cadmium (Ni-Cad) or Nickel Metal Hydride (Ni-MH)
Protection:	Reverse polarity DC Input, Reverse polarity Output (Fused), Thermal Cut-out, Security Timer, Alarms.

REPAIR & WARRANTY

Pro-Peak chargers are warranted for 90 days from original date of purchase, verified by a sales receipt. NO warranty can be accepted for chargers with broken casing seals, these will be considered to have been opened without authorisation. In case of a problem, contact your point of purchase or Ripmax Ltd. Points of purchase are not authorised to replace chargers thought to be defective: Warranty can only be accepted when claimed by the customer and accompanied by an original sales receipt. Chargers sent in for warranty repair that operate correctly will be charged with a service fee. No estimates for service or repair can be given without sight of unit. This warranty does not cover: Suitability for specific operation, incorrect installation, component wear from use, reverse or incorrect voltage application, misuse, damage due to opening of unit, replacing of cut or damaged wires and connectors, connection to items not mentioned in instructions, mechanical damage, immersion in water or any other type of damage caused by misuse.

Warranty liability is limited to repair or replacement of unit. As we, the supplier, have no control over the use of this product, our liability is limited to the cost of the unit. No liability can be accepted for damage resulting from the use of this product. By the act of use and operation of this product the user accepts all resulting liability.

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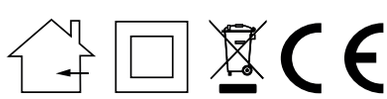

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