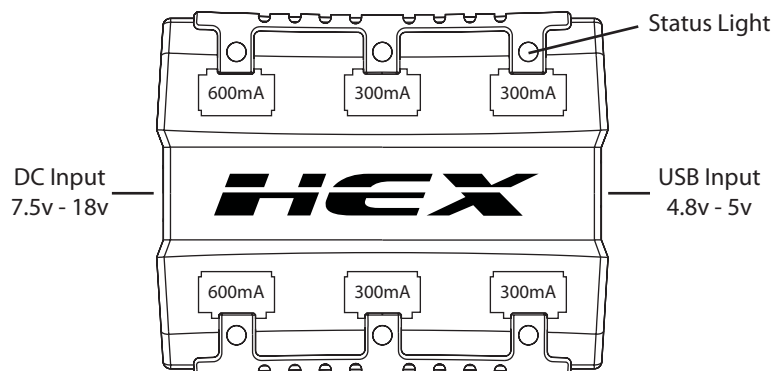




## Instruction Manual

### INTRODUCTION

Thank you for purchasing the Ripmax HEX charger. This is a charger designed to charge six single cell Li-Po flight batteries at the same time. Each battery has an independent circuit to provide a fixed charge current. Each circuit uses the CC/CV (constant current/constant voltage) charge method to provide optimum charging and avoid over-voltage. There are four 300mA charge sockets and two 600mA ones.



### WARNINGS

- Read these instructions fully before attempting to use the charger.
- This charger is for charging single cell Li-Po type batteries only. Do not use it to charge any other type of battery.
- Do not insert anything into the sockets other than an appropriate battery being charged or an adaptor specifically designed for the HEX.
- Make sure that the battery to be charged is in good condition and is not 'swollen' in any way.
- Do not try to charge a damaged battery.
- Do not charge a battery that you suspect may be under 3.0V.

### INPUT POWER

Input power can be provided by a wide range of DC power sources. A short power lead is provided with 4mm 'banana' plugs on one end plus removable 'crocodile' clips. The co-axial plug on the other end connects to the HEX where shown above. You can connect any DC battery within the 7.5v to 18v range using this lead. You can also use a conventional power supply or the DC output sockets from appropriate chargers in the Ripmax range that have this facility.

Alternatively, there is a micro USB socket that you can use to connect to your computer or laptop (lead not supplied). Sufficient power can be supplied through this connection for around 4 batteries at a time. An optional lead with a micro USB plug on one end and 'crocodile' clips on the other allows this socket to be used for DC inputs of 4.8 – 5.0v (a 4 cell Ni-MH battery or instance)

### CHARGING SOCKETS

The design of these sockets is such that they will accept most of the small (thin) E-Flite and Nine Eagles 1S batteries of around 120 -160mAh capacity that have the large plastic moulding at the plug end. Adaptor leads for the larger E-Flite white plug (mCPX) and a regular red, two-pin JST type plug are also included. These will cater for the majority of the other batteries on the market and other optional ones will be made available as they are needed.

### USING THE CHARGER

Choose the appropriate output current for the battery that you want to charge. The battery manufacturer will be able to advise you on this. As a guide, a 150mAh battery plugged into a 300mA socket will be charged at 2C. A 300mAh battery plugged into the same socket will be charged at 1C. Most of these batteries will be charged at a rate of over 2C so be sure your battery is capable of this.

Charging time varies according to the battery capacity and the charge current. As a guide, a 2C charge of a fully discharged battery will take around 30mins.

Before inserting the battery into the appropriate socket, the corresponding status light alongside will be green. When the battery is inserted (make sure it is pushed fully in), the colour of the light will change to red. This indicates that the battery is charging. Everything is automatically controlled. When the light goes green again, the battery is charged.

If the light does not go red when the battery is inserted it could mean three things;

- 1) The battery is not properly pushed in and no connection is being made.
- 2) The battery is already fully charged.
- 3) The battery is faulty.

Batteries can get quite warm during discharge. It is best to let the battery cool down before re-charging it.

As each charge socket is independently controlled, you can remove and replace batteries in the HEX as you need without affecting the charge on others, keeping flying time to the maximum!

### OPTIONAL ITEMS

Part Number	Description
O-IPBAL-HXL1	Adaptor Lead for HEX – MCPX type
O-IPBAL-HXL2	Adaptor Lead for HEX - Red JST
O-IPBAL-HXU	Micro USB DC power lead for HEX

### WARRANTY

Your Hex 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 itemised sales receipt that shows the purchase date. This warranty does not affect your statutory rights. In no instance will the liability cost of the charger exceed the original purchase price of the charger.

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Ripmax Ltd. 241 Green Street, Enfield, EN3 7SJ. United Kingdom.

