

# STARIZONA

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## POWER PACK II

Thank you for purchasing Starizona's Power Pack II. Following these instructions will insure maximum life of your new Power Pack. The Starizona Power Pack uses the latest in Lithium-Polymer battery technology to power all astronomical equipment which requires a nominal voltage of 12 volts. This well-established battery technology is safe and reliable and will provide many years of service if cared for properly.

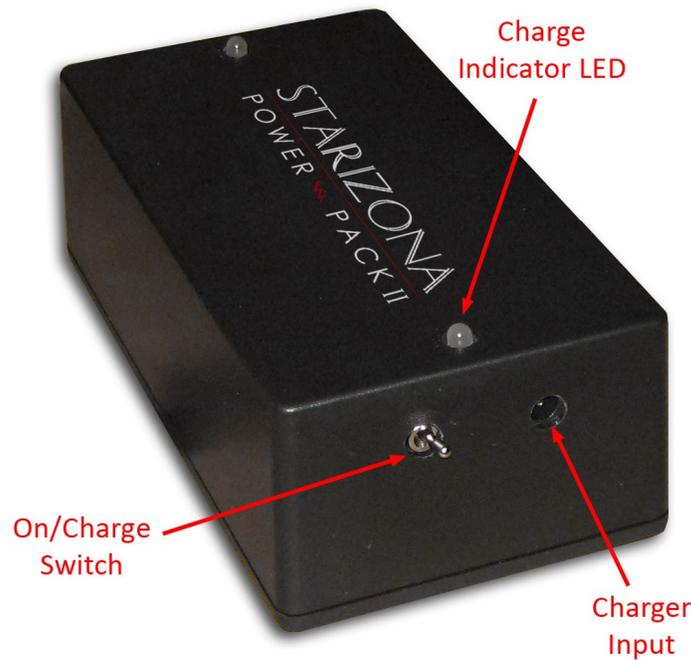
The pack consists of an integrated battery charger which will automatically charge the internal batteries and indicate to the user when the charge cycle is complete. This is accomplished by connecting the supplied 18 volt AC wall adaptor to the unit and moving the switch located near the AC adaptor connection to the charge position. This switch is used to select between charge and output on. When the switch lever is moved to the side closest to the input power jack, the unit is in charge mode. This turns off the output and the LED located near the power output cord will also turn off.



When the AC adaptor is connected to the battery unit with the switch in the charge position, the LED next to the switch will illuminate red in color. When the battery is approximately 95% charged, the LED will turn green. If left plugged in to the charger the battery pack will top off completely in a few more hours. The battery pack should be disconnected from the charger as soon as is convenient. Do not leave the pack connected to the AC adaptor for extended periods of time such as several days once the LED has turned green. A completely discharged battery will take about 15 hours to charge.

When the switch is in the on position (away from the charge connector) the unit will provide battery power. The LED near the output power cord will illuminate indicating that power is available. The LED will turn red when the battery has about 20% power remaining. This should provide about 20 to 30 minutes of run time for most astronomical applications. The output is protected with a 1.5 amp fuse which resets automatically when the overload condition is removed.





### **Application Hints:**

The best way to get the most life out of your battery is to charge it after each use. This will keep the depth of discharge to a minimum and will add many more cycles of use to its life. Lithium-polymer batteries do not suffer from memory like their Nickel-Cadmium (NiCad) counterparts.

Always place the switch in charge mode (switch position closest to the AC adaptor jack) when not using the pack, otherwise the LED near the output cable will remain on draining the battery down in a few days.

Lithium-polymer batteries have a high self-discharge rate. If your battery has not been used for a couple of months, it will have to be recharged before use or a very short run time may be expected. A good rule of thumb is to always charge the battery 1 day prior to use.