



## AstroTrac TT320X-AG Power Supply Guide

### Summary

The AstroTrac TT320X-AG requires 12.0 V DC and typically draws 200-250 mA current.

### Suitable Power Supplies

The TT320X-AG can be powered by any of the following:

- a car battery
- 8 x 1.5 V alkaline cells (a suitable battery holder with lead can be purchased from your AstroTrac Dealer or from AstroTrac directly)
- 10 x 1.2 V NiCAD or NiMH rechargeable cells
- a mains to 12 V DC adaptor

In general, we recommend using a 12 V 7.2 Ah lead acid gel battery. This should give around 28 hrs use when fully charged.

### Connector

The TT320X-AG power socket requires a male 2.1 mm DC jack plug and the centre pin must be wired positive (polarity marked on rear of unit).

### Voltage Range

We recommend a maximum voltage of 13.5 V (typical of a freshly charged car battery). If you exceed this you may destroy the main PCB.

If using AA cells, it is important to be aware that low temperatures can significantly reduce the cell voltage after a few hours. We recommend a minimum voltage of 10.5 V. The unit will probably work at a lower voltage than this, but the operation of the stepper motor may be affected, eventually missing steps and making an unusual noise, or stopping rotating completely.

