

# A & A Engineering

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## 5 Amp Smart Battery Charger



This **SMART BATTERY CHARGER** can be used with **GEL-CELL**, **LEAD ACID** or **AGM** batteries. Based on the Unitrode UC3906 chip which has three distinct operating states; **BULK**, **ABSORPTION** and **MAINTENANCE**. Initially the charging current is limited to a pre-set bulk value and when the battery voltage reaches a specific level the charger enters the absorption mode and tops off the battery with an elevated voltage. After top off, it enters the maintenance mode where it maintains the battery at a precision float level value.

An important feature of this charger is a **precision temperature tracking voltage reference**. This reference is specifically temperature compensated to track the temperature characteristics of lead-acid cells.

If a load is applied to the battery while the charger is connected, the charger will contribute its bulk current to the load. If the load discharges the battery sufficiently, the charger will repeat the three state process described above when the load is removed. This charger can be connected to the battery **indefinitely**, it **will not overcharge** your battery. Many Ham Radio Operators use this charger to maintain an Emergency Battery Backup System for use during power outages. 230VAC or 115/230 switchable available, see website for details.

This is a **low RF noise** linear (not a switching) charger, well suited for **radio use**. See **SHORT TAKES** review by **Joel R. Hallas, W1ZR**, QST Technical Editor in the **MAR 2004** and again in **NOV 2008 QST**.

Excellent for larger batteries (automobile type 80 - 120 Ampere-Hour) which are not used very often. Both input and output are rear panel fused. Output is reverse polarity protected.

**Various cables and Anderson Power Pole options available - see website for details.**

**ASSEMBLED (Order # 155-ASY)**

# \$ 169.95

**NOT AVAILABLE AS A KIT**

Shipping and insurance is extra. \$14.50 for US 48 destinations. California residents must add 8.75% sales tax. Foreign orders require special treatment, please contact us for details. We accept PayPal, Checks, Money Orders, VISA and MC. NO COD.

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