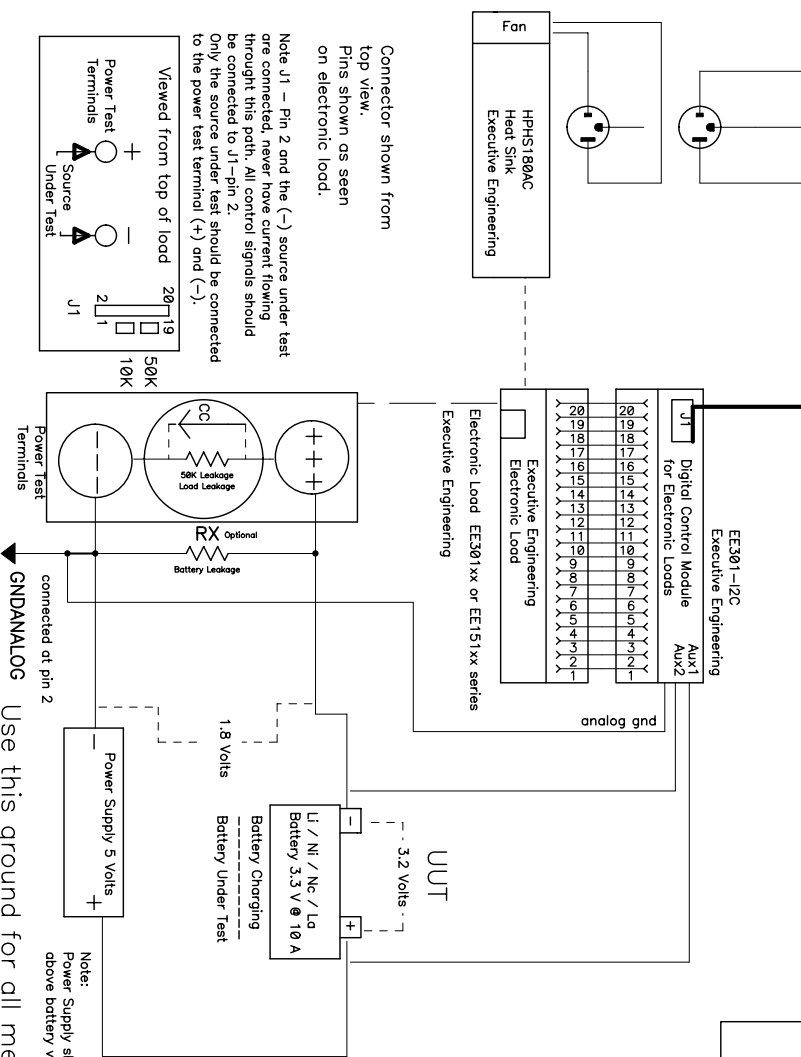


How to use an electronic load to charge Li / Nicad / Nc Batteries



Whats Required!

- EES-100 (Software) Windows only 98 / 2000 / XP
- EES301-12C (Digital Module)
- EES301-12C-CABLE (power & data cable)
- EE301xx or EE151xx (Electronic Load)

Optional Heat Sink (If Required) Any power dissipation above 20 watts we suggest using a high power heat sink!

Customer Supplied Equipment!

- DC Power Supply
- Batteries to be tested

Theory of operation.

As the battery charges the voltage across the battery will start to increase and the voltage across the electronic load will decrease. When the load get to a low enough voltage the EES-100 software will shut off the electronic load.
 Rx (Resistor) is for controlling the discharge or leakage current of the battery. Rx can also be used to control the tricky charge of a battery.

Please note that standard 1st rack mount electronic loads will not work for for charging battery banks. Only low voltage high power electronic loads will work for battery charging. The EES-100 software / hardware has special Aux channels that allow for battery charging & monitoring & control.
 Using electronic load other than Executive Engineering electronic loads could damage the electronic load or batteries.
 Please read the standalone battery charging control document for a better understand of power dissipation of the electronic load and battery leakage control & charge.

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Title		Digital Charger System	
Size	Number	X011-00002-0002	Rev
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Filename	digital-charger.SCH Sheet 1 of 1		