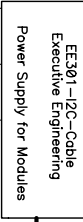


To PC Parallel Port

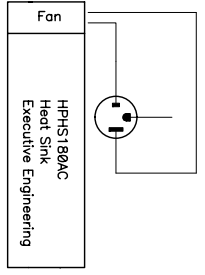
Customer PC

EES-100
Software

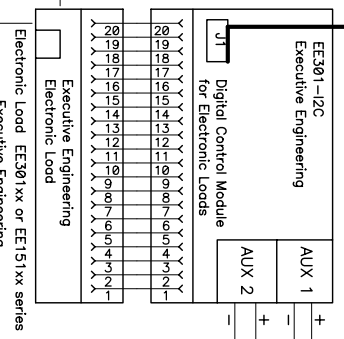
How to use an electronic load to charge
Li / Nicad / Nc Batteries / LA



EES301-12C-Cable
Executive Engineering
Power Supply for Modules



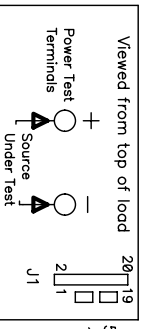
HPS180AC
Heat Sink
Executive Engineering



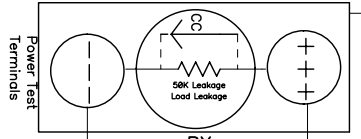
EES301-12C
Executive Engineering
Digital Control Module
for Electronic Loads
AUX 1
AUX 2
Electronic Load
Executive Engineering
Electronic Load
Executive Engineering

Connector shown from
top view.
Pins shown as seen
on electronic load.

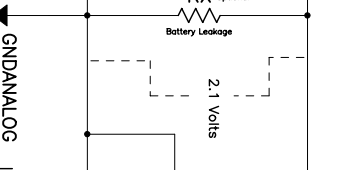
Note J1 - Pin 2 and the (-) source under test
are connected, never have current flowing
through this path. All control signals should
be connected to J1 -pin 2.
Only the source under test should be connected
to the power test terminal (+) and (-).



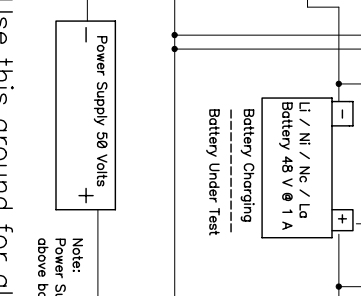
Viewed from top of load
Power Test
Terminals
Source
Under Test
20
19
21
1
50K
10K
J1



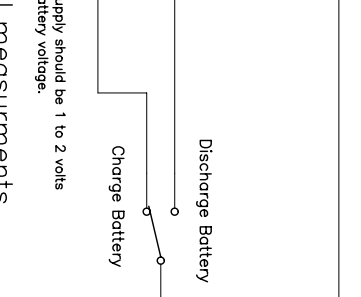
Power Test
Terminals
58K Leakage
Load Leakage
CC
Optional
Battery Leakage
2.1 Volts



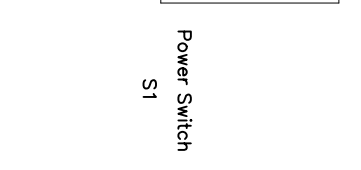
Power Test
Terminals
GNDANALOG



Power Supply 50 Volts
Note:
Power Supply should be 1 to 2 volts
above battery voltage.



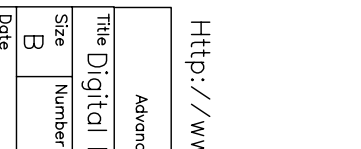
Power Supply 50 Volts
Note:
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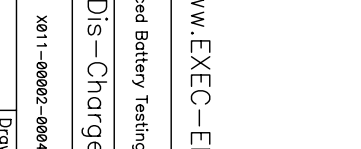
Power Supply 50 Volts
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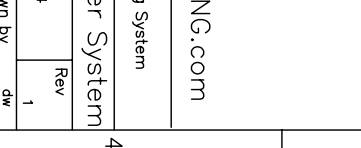
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Power Supply 50 Volts
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Power Supply 50 Volts
Note:
Power Supply should be 1 to 2 volts
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Whats Required!

- EES-100 (Software) Windows only 98 / 2000 / XP
- EES301-12C (Digital Module)
- EES301-12C-CABLE (power & data cable)
- EES301xx 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

Power Supply must be able to supply full charging current to batteries.

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.

The EES-100 software can be used for both charging and discharging a battery source.

Http://www.EXEC-ENG.com

Advanced Battery Testing System

Title Digital Dis-Charger System

Size B Number X011-00002-0004 Rev 1

Date Filedm@y-digital-dis-charger-SPSheet 1 of 1 Drawn by dw