# HMB

# Boards support and Power supply Salvador Ventura

## 09/28/2020

- Progress
  - Working with Roy on the acrylic boards and cutting musumi bars. The acrylic boards are ready to be mounted.
  - Multimeter box for power supply.
    - Power supply assembled (Power Pac + Power Mod+ powerpac\_panel\_r7)
    - Rewiring for -5V
    - Circular connector replaced
    - Panel voltmeter tested

- Plans
- Mounting the boards
- Testing current measurements
- Continue CAD models for fibers support

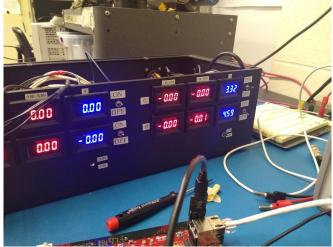




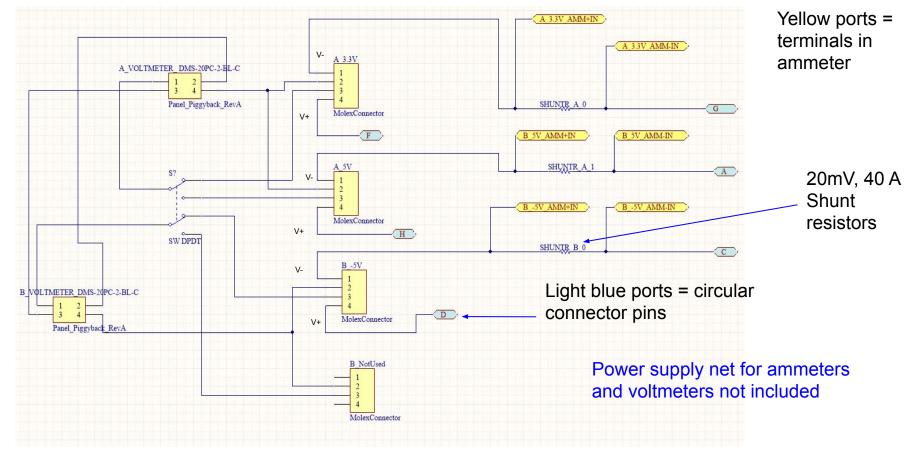


"New" connector

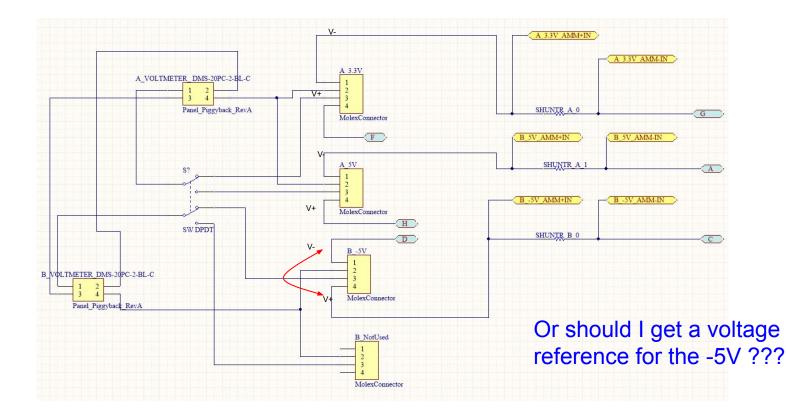




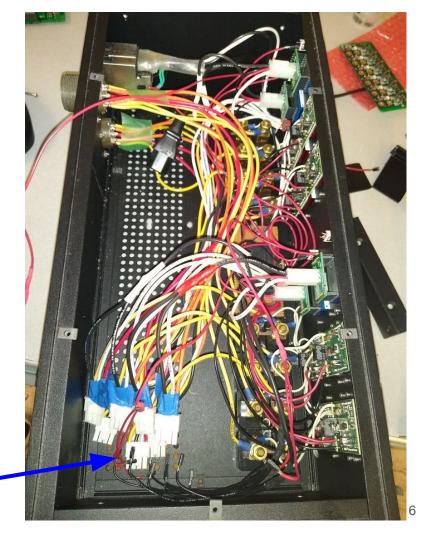
# Current setup, labels for voltage to be applied



### Plan to get -5V: swap cables for pin 4 and 1 of molex connector







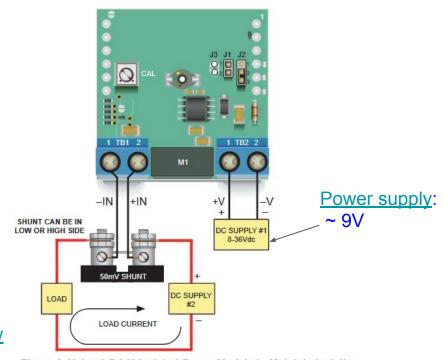
Molex connectors

#### AMMETER

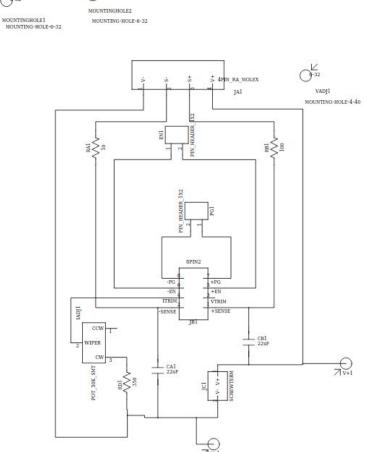
#### DCA5-20PC-1-DC4-RL-C

**Measuring positive and negative currents (bipolar operation)**: In applications where both positive and negative currents must be measured, Murata Power Solutions recommends using '-DC4' 8-36V isolated supply models. Negative current flow is denoted by the illumination of the display's negative (–) sign; the absence of a negative sign implies positive current flow. Contact MPS if you have any questions regarding bipolar operation of DCA5-20PC ammeters.

https://www.murata.com/-/media/webrenewal/products/pow er/datasheet/dca520pc.pdf



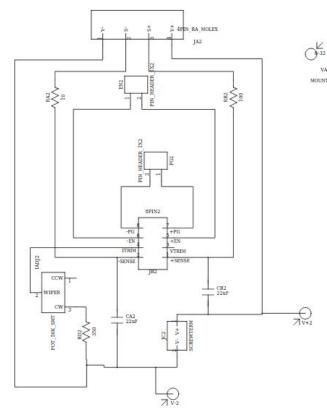
#### Figure 6. Using "-DC4" Isolated-Power Models to Maintain Isolation Between Two Power Supplies



powerpac\_panel\_r7

Q-32

K-32



VADJ2 MOUNTING-HOLE-4-40