Load Controller: Mechanical Configuration Errata

All the original files for these designs can be found on the website. This serves to indicate changes that were made to those files. These are not changes that should be made, but rather changes that were made and were necessary to mechanically configure the load controller. In general, the load controller was configured using an aluminum Bud Industries small server rack box. Inside the box, all components were mounted on an aluminum plate.

Box Back Panel

The holes allowing the high voltage wire needed to be expanded to a 1.25” diameter. The radius for the fuse holders were expanded to a .22” radius.

Box Front Panel

It was found that the Molex connectors and the TE 3-Pin connector needed the front panel to be thinner than the original bud box. The thickness of the bud box front panel is about 1/8”. The connectors need to a thickness of about 1/16”. The only changes that were made were to thin all of the connectors from the front by 70mm.
Box Bottom

No changes were made to the box bottom.
Aluminum Plate

The necessary dimensions for the aluminum plate were changed a bit to make the requirements easier (and quicker for the parts to be shopped. Parts were moved slightly from their original positions for simpler dimensions. Dimensions based on parts (like the IMD) were left alone as exact measurements were needed.