



Q3 and Q5 PFETs conduct when $V_{gs} < B+ - 1V$ ($V_{gs(th)} = -1V$). Normally their gates are pulled to GND and closed, when either comparator activates, they are pulled to 5V and open.

Q3 and Q5 both normally closed FETs. In contrast, Q1 and Q2 gates are pulled high and low respectively to ensure they are default open.

At -1 V V_{gs} the NFETs drain current is -1 A. I will limit battery voltage to 1 V and make the resettable PTC fuse 1 A to account for this. It's a design flaw so rev2 will have to be a big redesign. Also combine logic onto signal side to have 2 power-side FETs.