Sheet: Monitor +ve terminal

File: diyBMS-Leaf_pos.sch

Cell Monitor +POS terminal

Sheet: Monitor -ve terminal

File: diyBMS-Leaf_neg.sch

Cell Monitor -NEG terminal

Sheet: Power and Comm

File: diyBMS-Leaf-Pwr_Comms.sch

Power and Interconnections

v0.90 - Initial release, SMT connectors
v0.91 - Switch to through-hole JST connectors
v0.99 - move JST connectors away from mounting holes. Possible shorting issue
v1.00 - Initial post to github

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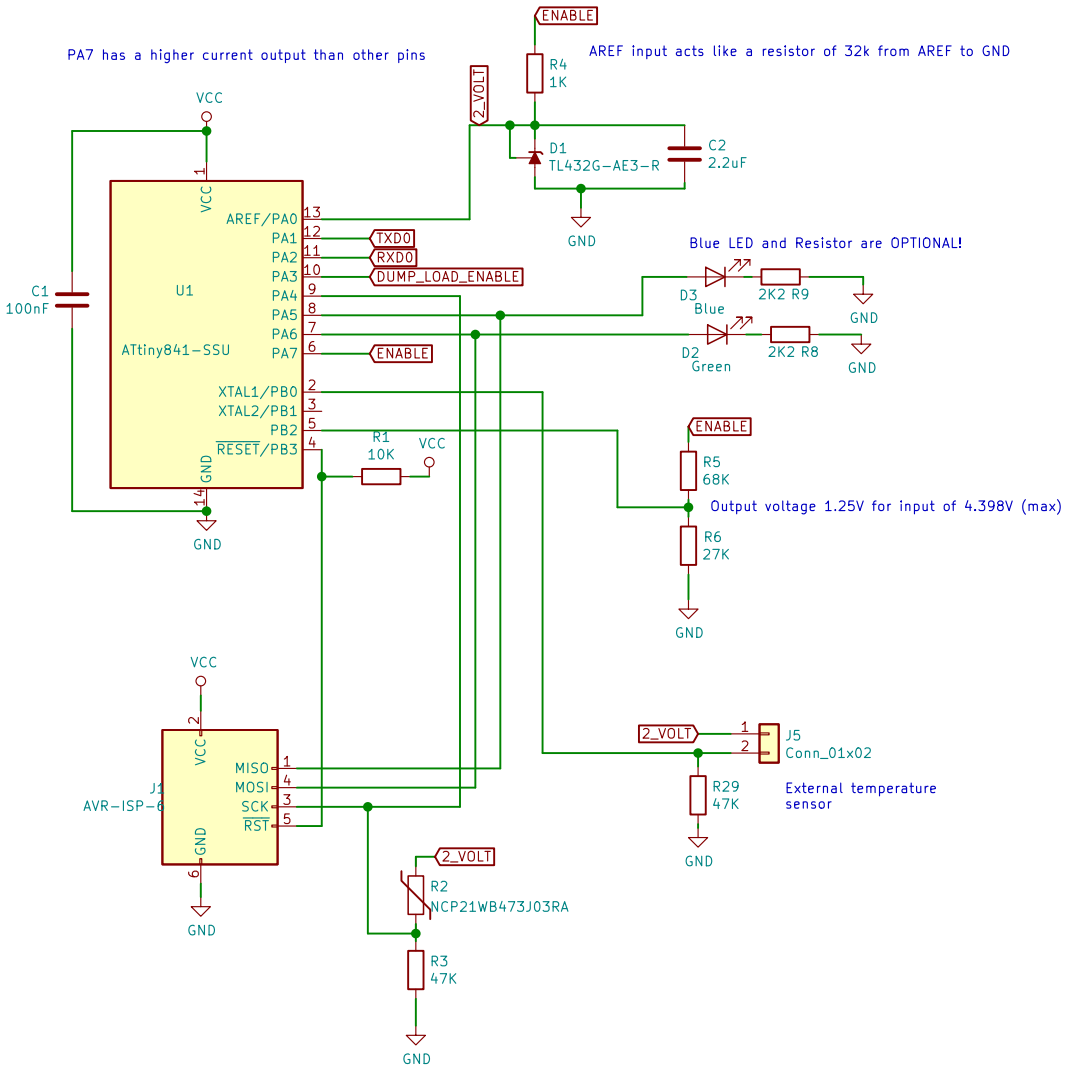
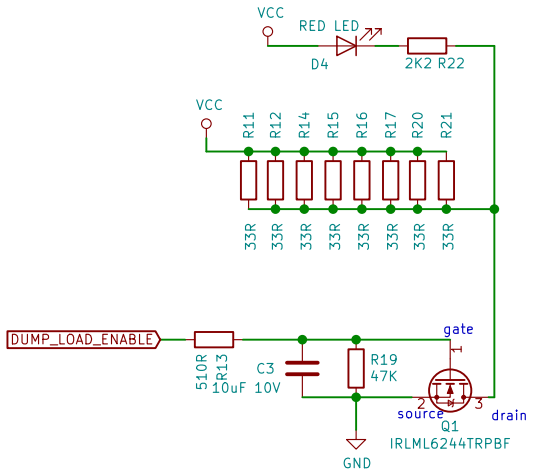
Sheet: /
File: diyBMS-Leaf.sch

Title: diyBMS-LEAF

Size: USLetter	Date: 2020-04-21	**Rev: 1.00**
KiCad E.D.A. kicad 5.1.5-52549c586ubuntu18.04.1		Id: 1/4

BMS for the +ve Leaf terminal





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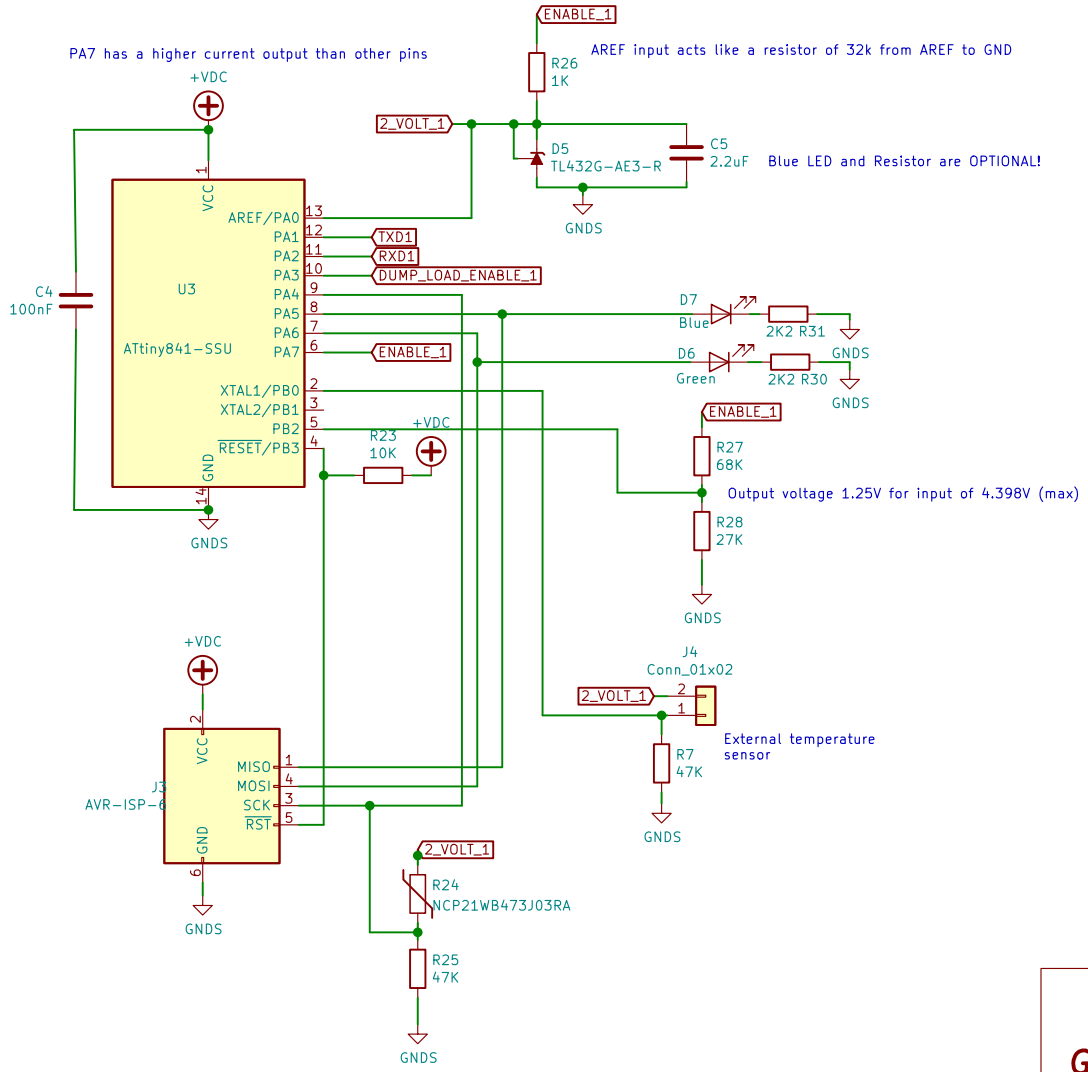
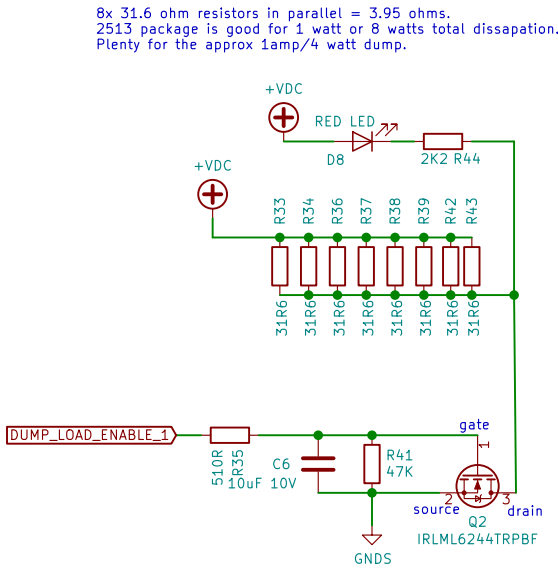
Sheet: /Monitor +ve terminal/	
File: diyBMS-Leaf_pos.sch	
Title: diyBMS-LEAF	
Size: USLetter | Date: 2020-04-21	**Rev: 1.00**
KiCad E.D.A. kicad 5.1.5-52549c586ubuntu18.04.1	Id: 2/4

BMS for the −vs Leaf terminal





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Sheet: /Monitor −ve terminal/	
File: diyBMS−Leaf_neg.sch	
Title: diyBMS−LEAF	
Size: USLetter | Date: 2020−04−21	**Rev: 1.00**
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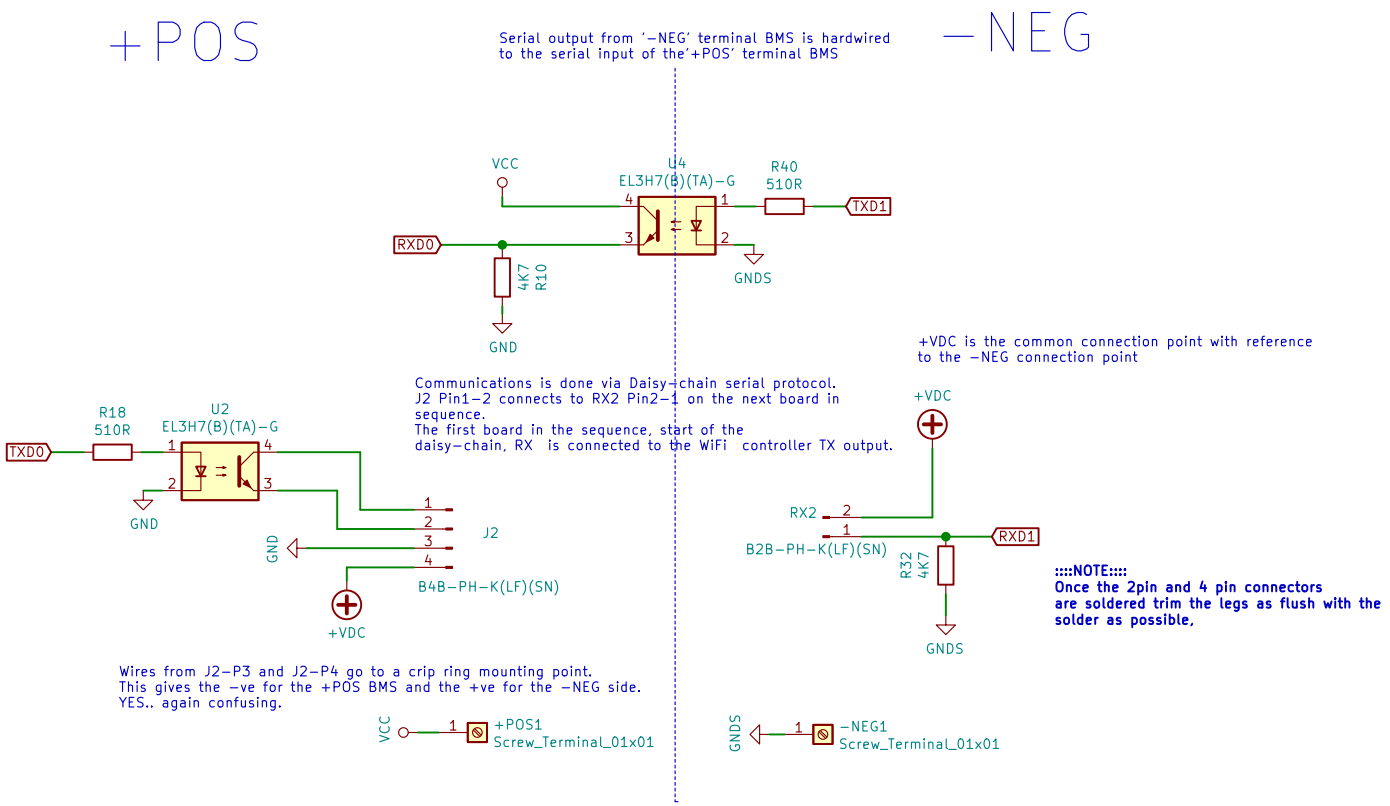

The Leaf cell is 2s2P with 3 connection terminals, +ve common −ve
Voltage on one pack is measured between the −ve terminal and common. The voltage on the second pack measures between he +ve terminal and common.
For schematic and layout purposes there are uniquely names VCC lines and GND lines for the separated BMS circuits.
YES... confusing

Each BMS is has its own supply:
+ve terminal − common (common is negative)
−ve terminal − common (common is positive)

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Sheet: /Power and Comm/
File: diyBMS−Leaf−Pwr_Comms.sch

Title: diyBMS−LEAF

Size: USLetter	Date: 2020−04−21	**Rev: 1.00**
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