

Title: SOLARMINIBAT01A

Solar charged LTO Battery Managment System

Author: MLAB.cz

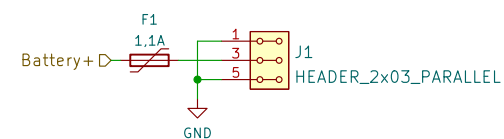
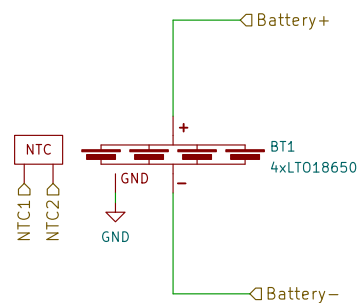
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BATTERY PACK



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Solar Cell Panel Connection

Photovoltaic pannel connection
Usually array of four cells in series
with following parameters:
 $I_{sc} = 2,3 \text{ A}$
 $V_{oc} = 2,5 \text{ V}$
 $I_{mpp} = 2,1 \text{ A}$
 $V_{mpp} = 2,1 \text{ V}$
 $P_m = 4,4 \text{ Wp}$

The circuit diagram illustrates the connection of a solar cell panel to a battery and a load. The solar panel is connected to the MPPT controller (U3: SPV1040) via J2 (PV+) and J3 (PV-). The battery (U1: LTO1040) is connected to the MPPT controller via J1 (BAT+), J5 (BAT-), and J4 (CHARGE_EN). The MPPT controller has various pins connected to the panel, battery, and a load. The load is connected via J6 (LOAD+) and J7 (LOAD-). The output of the MPPT controller is connected to the battery and the load. The diagram includes various components like resistors (R18, R19, R20, R21, R22, R23), capacitors (C8, C9, C10, C11, C12, C13, C14, C15), an inductor (L1), a diode (D9), and a MOSFET (M1).

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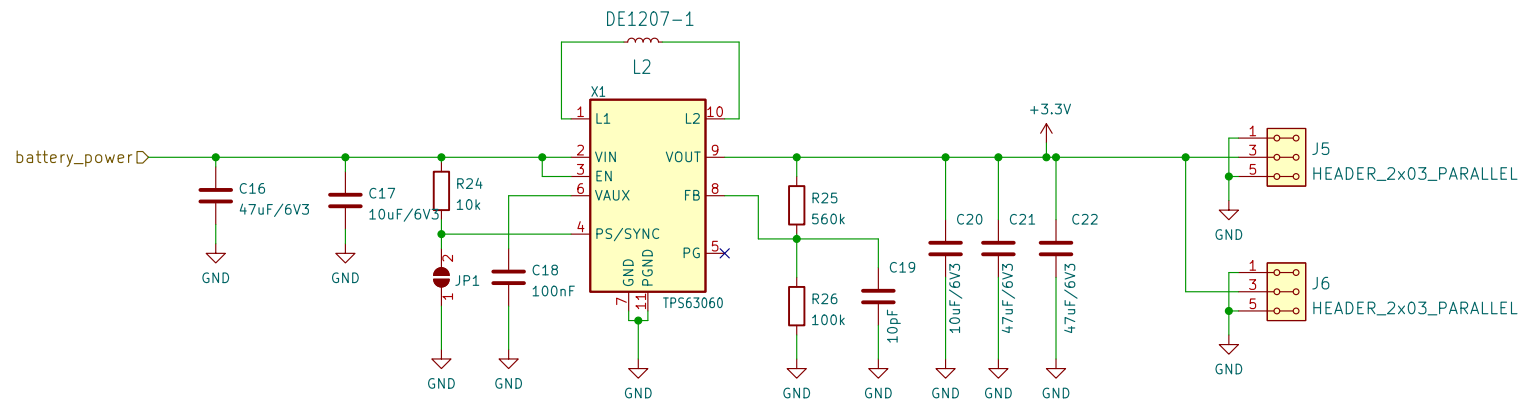
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