



Battery Watering Board

Changelog:
REV A--Initial concept. Q25067-001

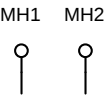
REV B--Add relay driver, change J3 to 14 pins. Q25067-002 mule board.

REV C--Fix U2-2. Q25067-003 P1.5 board
--Eliminate chempump references.
--Eliminate pot input.
--Eliminate CAN connector, route CAN to main connector.
--Change J3 from 14 to 12 pins.
--Break out flow switch to J5.
--Break out pump to J4.

REV D--Change connection of Vbat pin to Vdd. Change will occur on Q25067-004, not done yet.
--Change R26,R29,R33,R34 to 0.1% tolerance.
--Change C54 to 470uF, was 820uF.

REV E--Hardware revision bits 02.
--Populate R47 with 0.062 Ohm 1206.
--New firmware rev _002 to accomodate new current gain on pump.
--Pump current limit now 5A.

LAYOUT FEATURES:
CENTER MOUNTING HOLE



FIDUCIAL/A
FIDUCIAL/A
FIDUCIAL/A

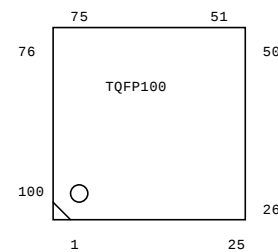
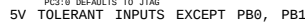
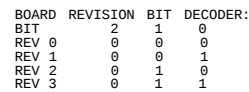
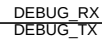
(REFERENCE ONLY) PCA : 1220931

REFERENCE ONLY BOM ITEMS:

- ☐ FIRMWARE Q30096-001
- ☐ PCB1 Q25067-003
- ☐ SCHEMATIC1 Q26019-002

Title		
BATTERY WATERING MODULE		
Size B	Document Number	Rev E
	Q26019-002	
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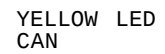
RS-232 SERIAL PORT



D5
DNI

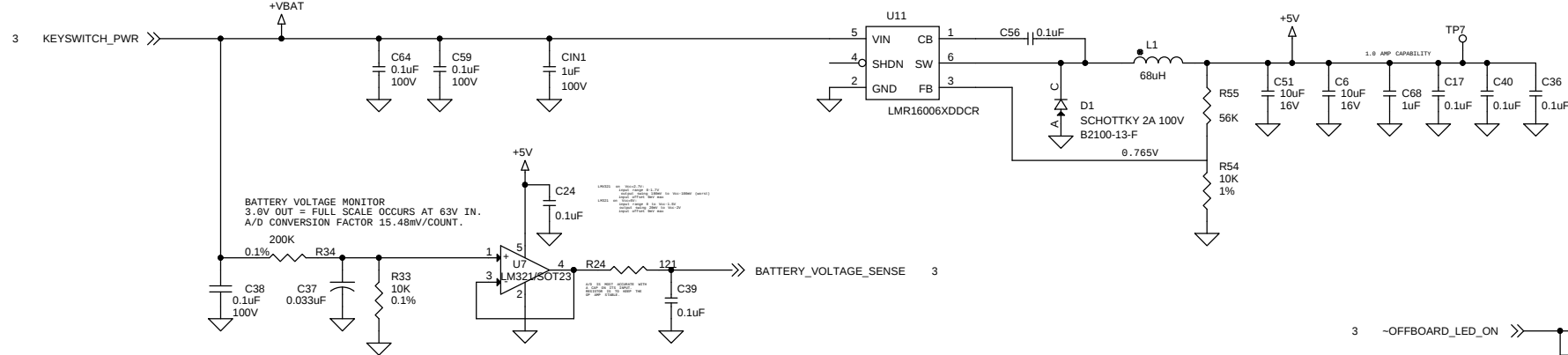
3

GSOT05C

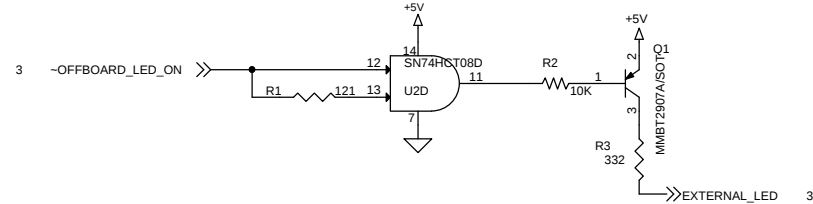
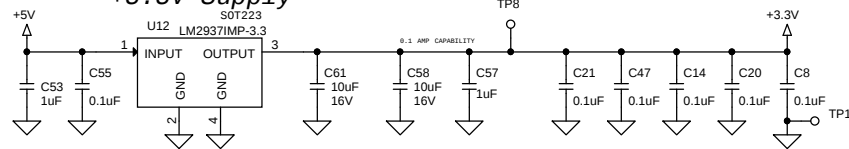


Title			
BATTERY WATERING MODULE			
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Custom	Q26019-002		
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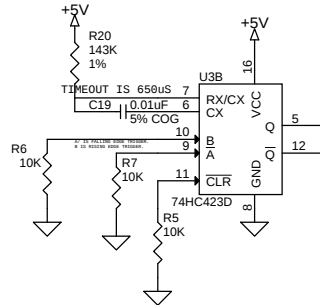
+5V SUPPLY INPUT RANGE 12V-36V NOMINAL 60V MAX



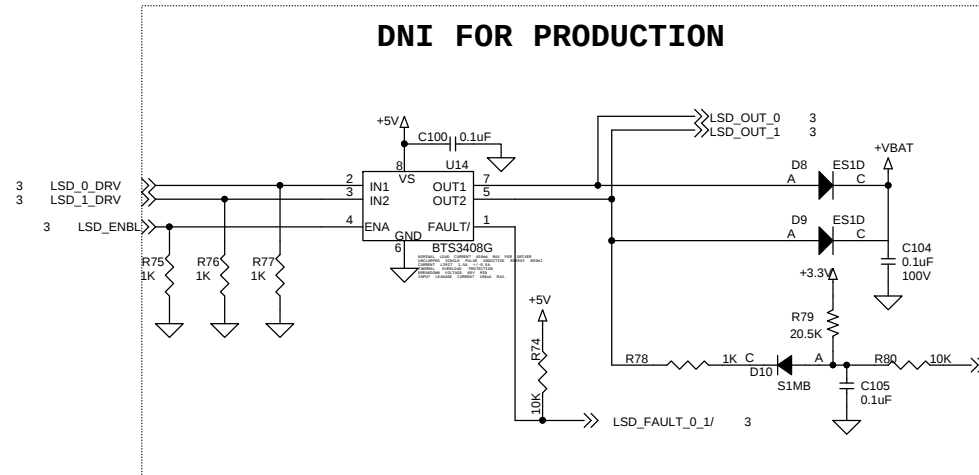
+3.3V Supply



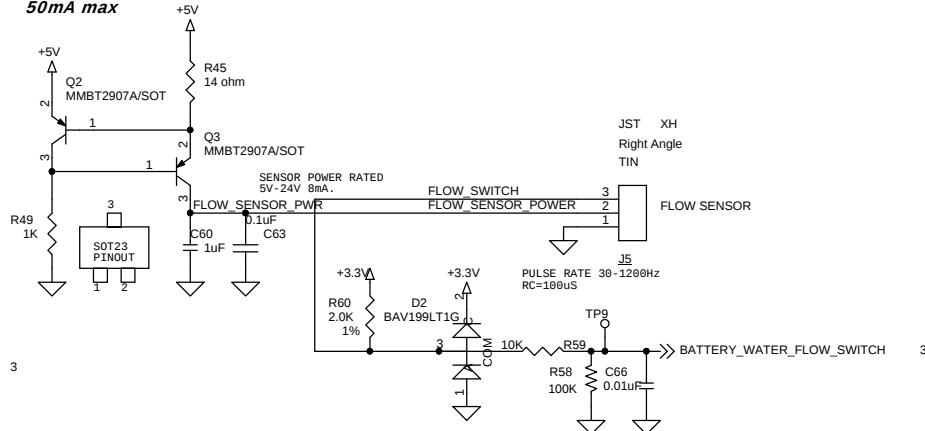
SPARES



DNI FOR PRODUCTION



**Current limited 5V source
50mA max**



**Power Supplies
LOW SIDE DRIVERS**

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BATTERY WATERING MODULE			
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