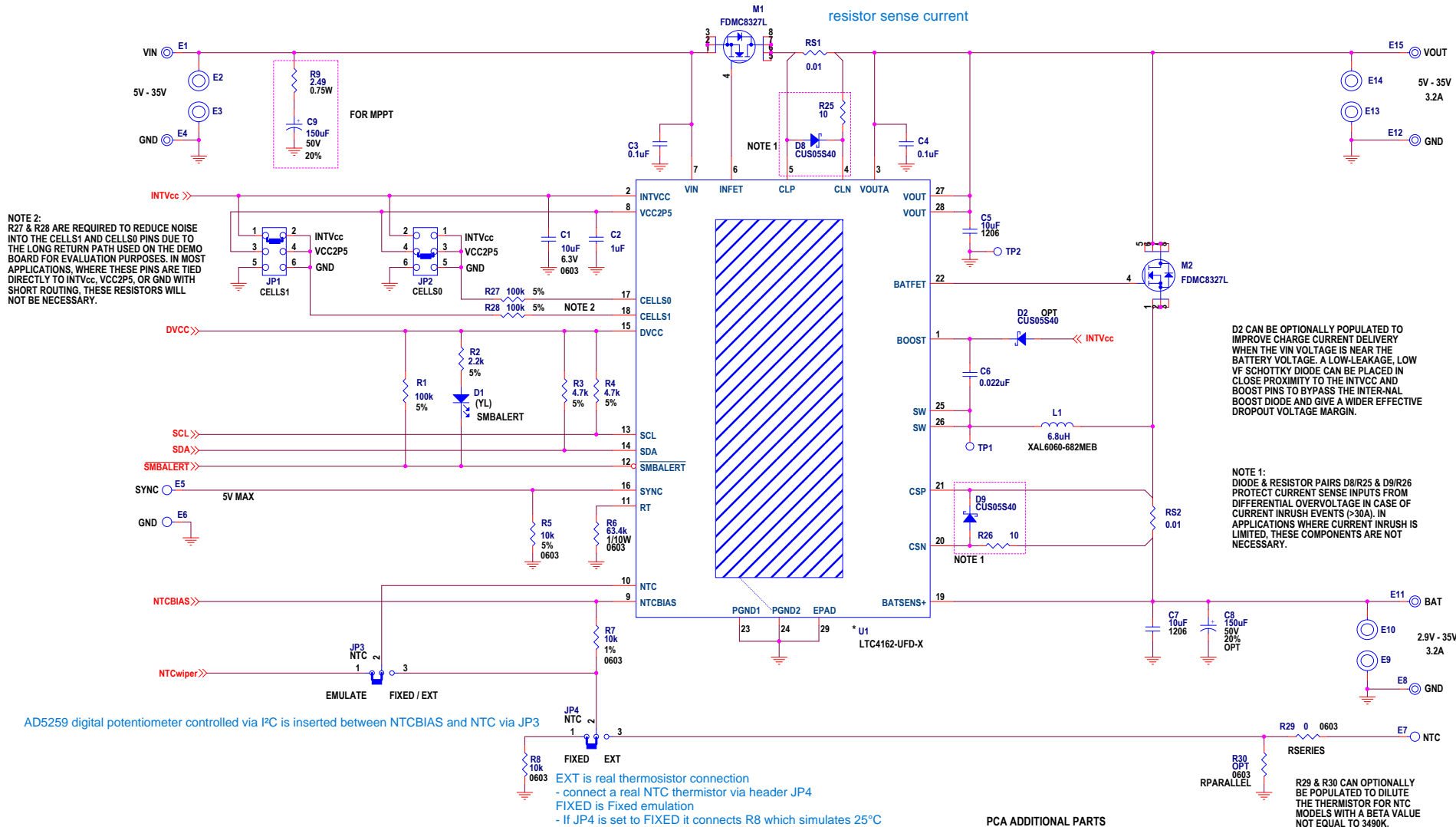


REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
-	11	PRODUCTION FAB	ZP	10-9-18



NOTES: UNLESS OTHERWISE SPECIFIED  
1. RESISTORS: OHMS, 0402, 1%, 1/16W  
2. CAPACITORS: 0402, 10%, 50V

\* = DEFAULT

Li-Ion # OF CELLS	LiFePO4 # OF CELLS	LEAD-ACID # OF CELLS	VOLTAGE	CELLS1 PIN VOLTAGE	CELLS0 PIN VOLTAGE
1	1	3	6V	INTVcc	INTVcc
2*	2*	6*	12V*	INTVcc*	VCC2P5*
3	3	9	18V	INTVcc	GND
4	4	12	24V	VCC2P5	INTVcc
5	5	DISALLOWED	-	VCC2P5	VCC2P5
6	6	DISALLOWED	-	VCC2P5	GND
7	7	DISALLOWED	-	GND	INTVcc
8	8	DISALLOWED	-	GND	VCC2P5
DISALLOWED	9	DISALLOWED	-	GND	GND

\* DEMO SKU# / U1 IC TABLE

		MPPT OFF BY DEFAULT		MPPT ON BY DEFAULT	
		SKU #	U1 USED	SKU #	U1 USED
LI-ION	ADJUSTABLE	DC2038A-A	LTC4162EUF-D-LAD	DC2038A-J	LTC4162EUF-D-LADM
	4.0V FIXED	DC2038A-B	LTC4162EUF-D-L40	DC2038A-K	LTC4162EUF-D-L40M
	4.1V FIXED	DC2038A-C	LTC4162EUF-D-L41	DC2038A-L	LTC4162EUF-D-L41M
	4.2V FIXED	DC2038A-D	LTC4162EUF-D-L42	DC2038A-M	LTC4162EUF-D-L42M
LiFePO4	ADJUSTABLE	DC2038A-E	LTC4162EUF-D-FAD	DC2038A-N	LTC4162EUF-D-FADM
	3.6V FIXED	DC2038A-F	LTC4162EUF-D-FST	DC2038A-O	LTC4162EUF-D-FSTM
	3.8V FIXED	DC2038A-G	LTC4162EUF-D-FFS	DC2038A-P	LTC4162EUF-D-FFSM
	ADJUSTABLE	DC2038A-H	LTC4162EUF-D-SAD	DC2038A-Q	LTC4162EUF-D-SADM
LEAD ACID	FIXED	DC2038A-I	LTC4162EUF-D-SST	DC2038A-R	LTC4162EUF-D-SSTM

#### PCA ADDITIONAL PARTS

MH1	STANDOFF,NYLON,SNAP-ON,0.50"
MH2	STANDOFF,NYLON,SNAP-ON,0.50"
MH3	STANDOFF,NYLON,SNAP-ON,0.50"
MH4	STANDOFF,NYLON,SNAP-ON,0.50"
LB1	LABEL
PCB1	PCB, DC2038A REV11
STNCL1	TOOL, STENCIL, 700-DC2038A REV11

#### CUSTOMER NOTICE

LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

#### APPROVALS

PCB DES: N. Carlone  
APP ENG: Z. Pantley

#### IC NO.

LTC4162

#### SKU NO.

\* SEE TABLE



www.analog.com

TITLE: DEMO CIRCUIT SCHEMATIC,  
35V/3.2A MULTI-CELL STEP-DOWN BATTERY  
CHARGER WITH POWERPATH AND I2C TELEMETRY

DATE: Monday, October 22, 2018

SHEET 1 OF 2

