



Determines Minimum Operating Voltage to enable switching regulator. Set to 5V (Minimum voltage of LT8490)

SHDN pin needs to be higher than 1.234V

Input Voltage Sensing and Modulation Network

Maximum PV Panel OC Voltage 53.0V

VINR Divider Network used to measure absolute PV panel voltage.

When connected to DC Supply, VINR should be pulled low (Remove R22)

Values fixed and dictated by datasheet.

Temperature Measurement, Compensation and Fault

Use 10k NTC thermistor, or 10k resistor to indicate battery is 25deg C.

PV Input Current Limiting = 7.2A (Should be set at 120 to 130% of PV Max I)

Fosc 200kHz

Output Current Regulation Loop

Max Charge Current 5A

Trickle Charge Current 2A

Output Feedback Resistor Network

Title		
Buck Boost Multi-Chemistry Battery Charger with MPPT		
Size	Number	Revision
A3		
Date:	3/01/2017	Sheet of
File:	Charger.SchDoc	Drawn By: C. Peacock