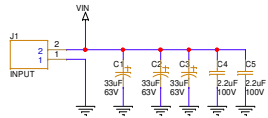


# MAIN

## PV PANEL

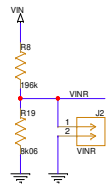


## VINR Divider

VINR Divider Network used to measure absolute PV panel voltage.

When connected to DC Supply, VINR should be pulled low. (Insert J2)

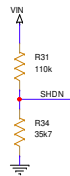
Values fixed and dictated by datasheet.



## SHUT DOWN

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

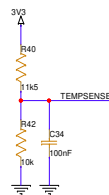
SHDN pin needs to be higher than 1.234V



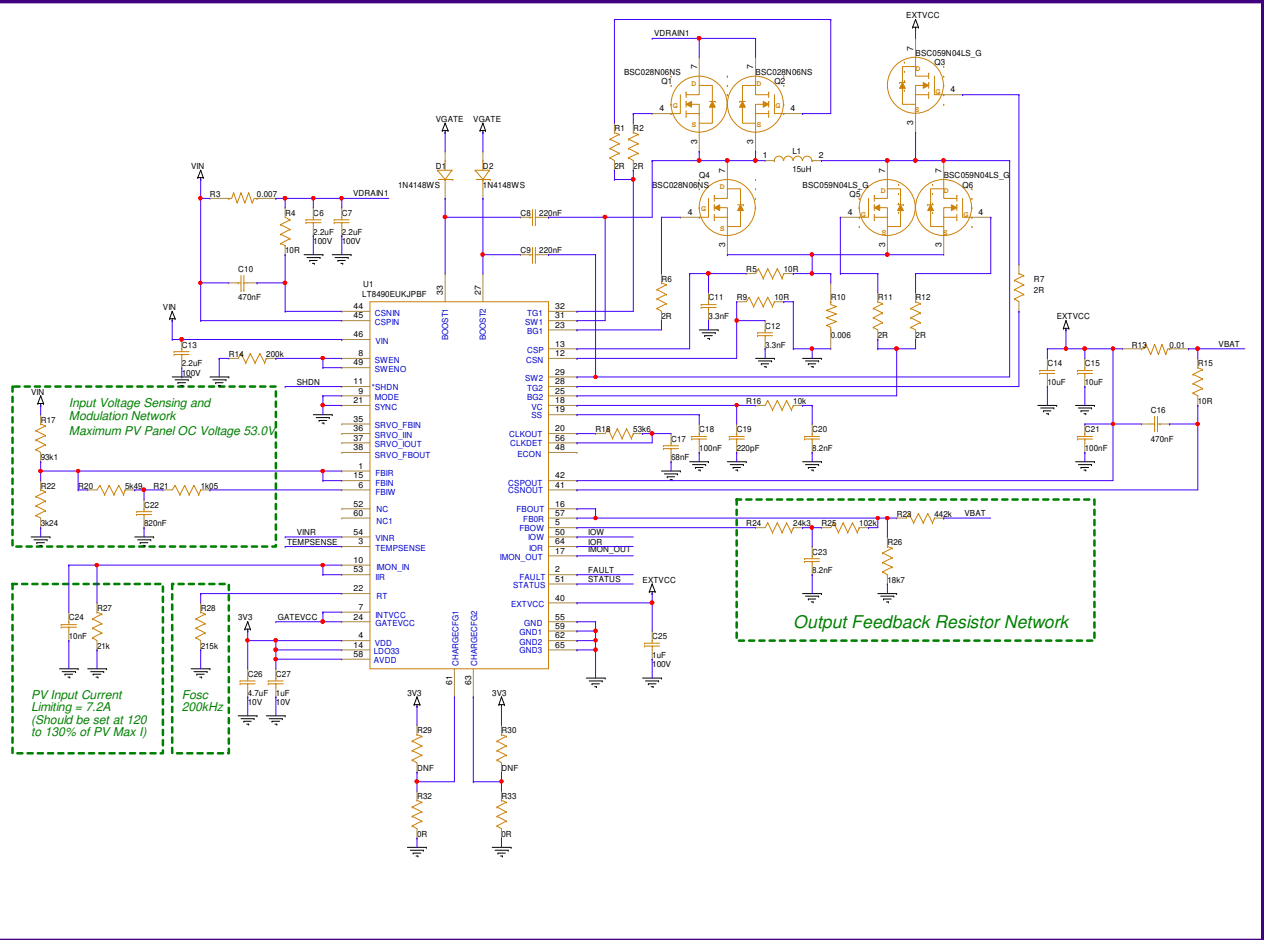
## Temperature Sense

Temperature Measurement, Compensation and Fault

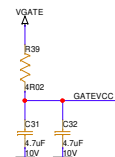
Use 10k NTC thermistor, or 10k resistor to indicate battery is 25 deg C.



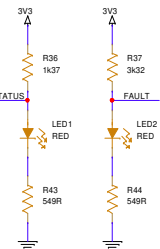
## BUCK BOOST CONTROLLER



## GATE VCC

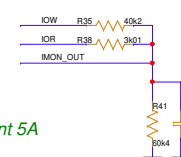


## LED Indicator

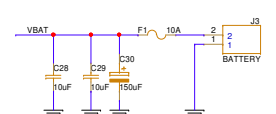


## Output Current Regulation Loop

Max Charge Current 5A  
Trickle Charge Current 2A



## BATTERY



File	BuckBoostBatteryChargerWithMPPPT
Size	Document Number
C	1
Date	Monday, November 11, 2024
Sheet	3 of 6
Rev	A

MECHANICAL

FID1



EIDUCIAL 3.2 MM

FID2



EIDUCIAL 3.2 MM

FID3



EIDUCIAL 3.2 MM

MHNP1



MHOLE 3.2 MM NP

MHNP2



MHOLE 3.2 MM NP

MHNP3



MHOLE 3.2 MM NP

MHNP4



MHOLE 3.2 MM NP

Title		
BuckBoostBatteryChargerwithMPPT		
Size	Document Number	Rev
B	1	A
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