U_CellCircuit
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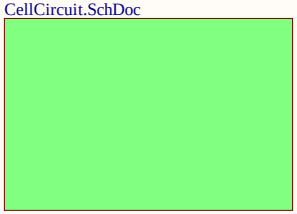
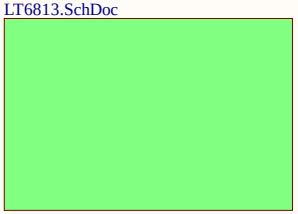


U_LT6812
LT6813.SchDoc



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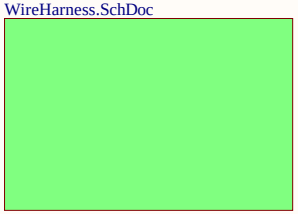
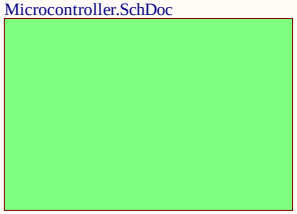
WireHarness.SchDoc



U_Microcontroller
Microcontroller.SchDoc



U_PowerConversion
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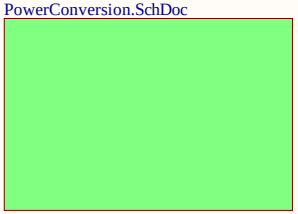
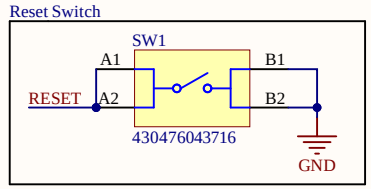
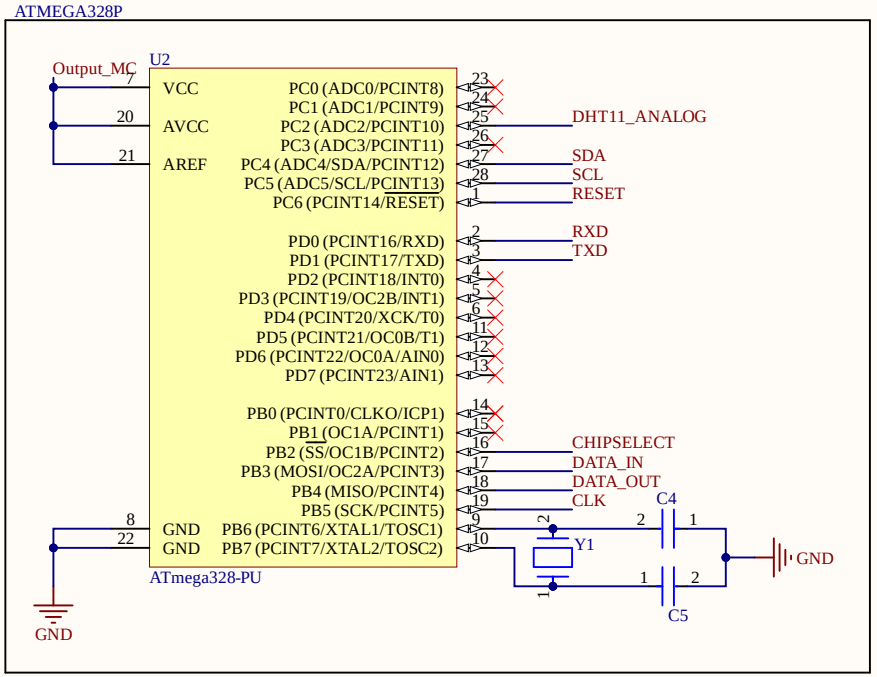
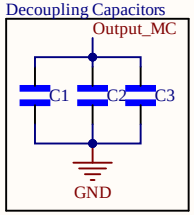
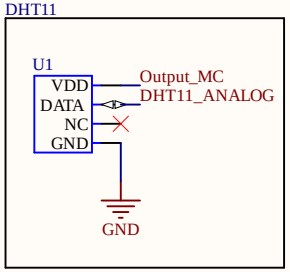


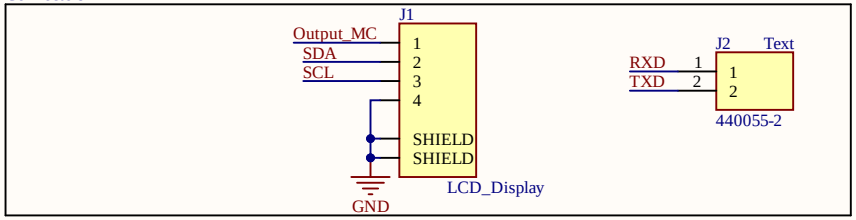
Title	Team1p618		
Size A4	Number BMS48Volts using LTC6813		Revision 0.1
Date:	3-31-2024	Sheet of	Team1.618
File:	C:\Joshua DATA\..\BMS48Voltsv0.1.SchDoc	Drawn By:	Joshua Anthony(R&D)











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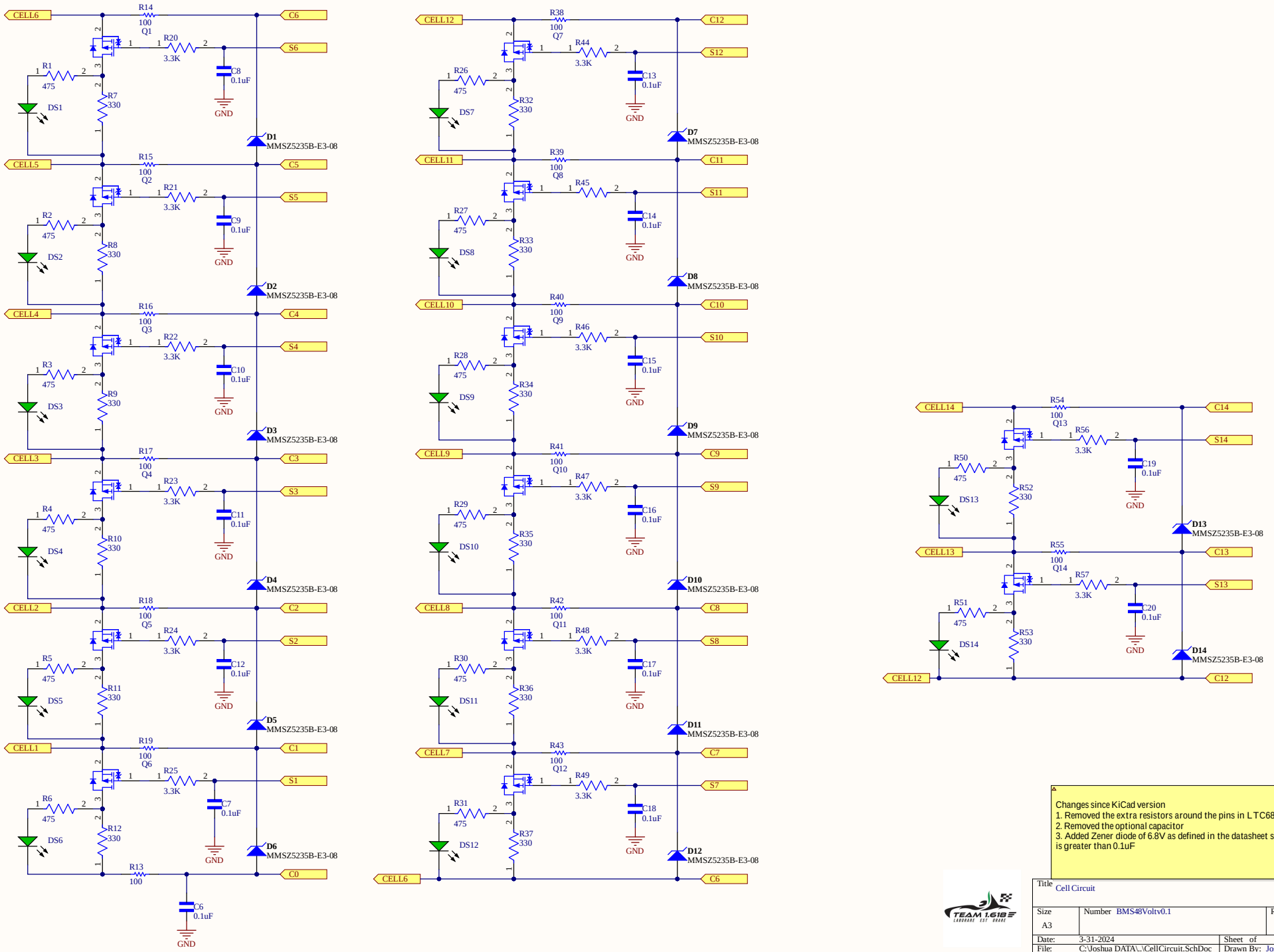
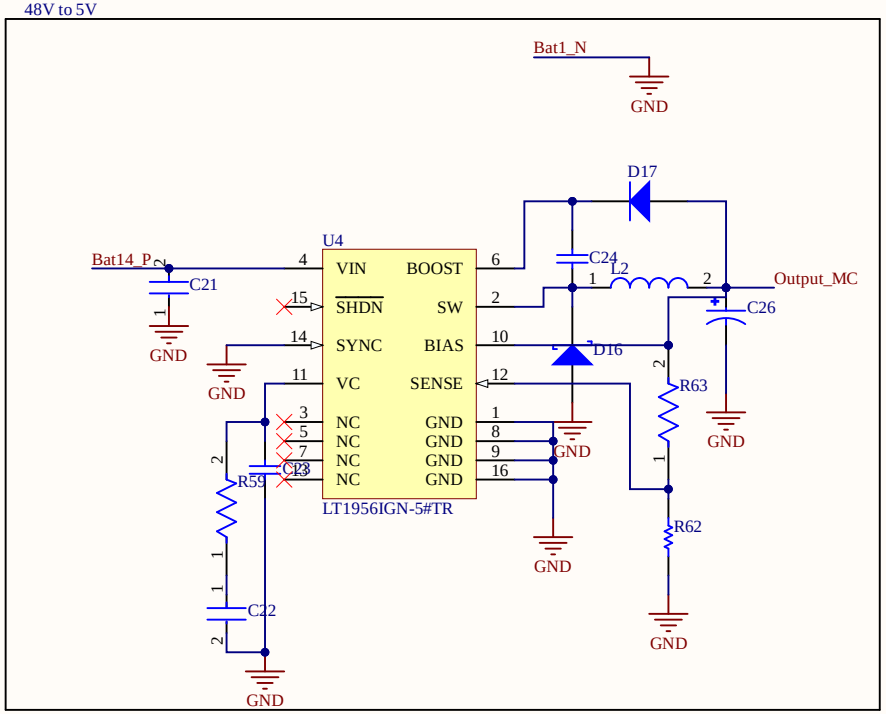


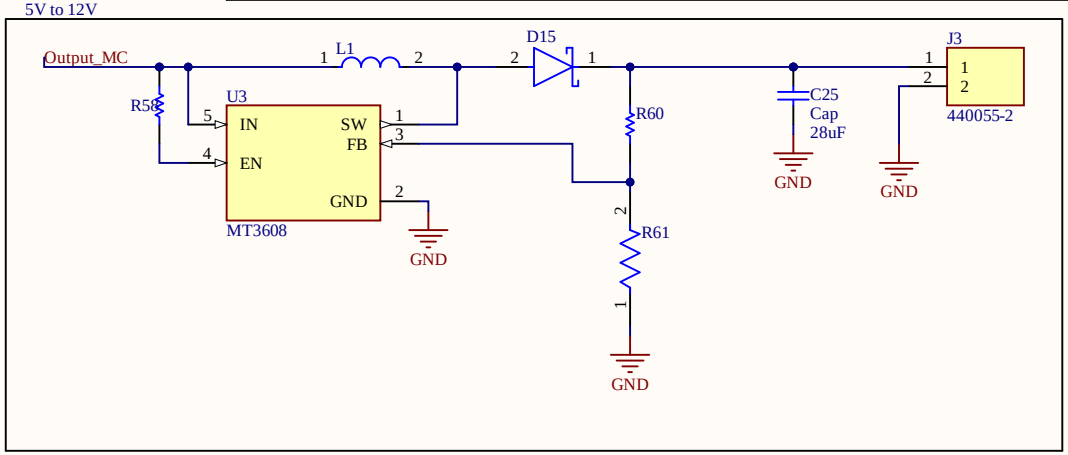
Changes since KiCad version
1. Removed the extra resistors around the pins in LTC6812
2. Removed the optional capacitor
3. Added Zener diode of 6.8V as defined in the datasheet since the capacitance is greater than 0.1uF

Title	Cell Circuit	
Size: A3	Number: BMS48Voltv0.1	Revision: 0.1
Date: 3-31-2024		Sheet of
File: C:\Joshua DATA\..\CellCircuit.SchDoc		Drawn By: Joshua Anthony(R&D)

48V to 5V

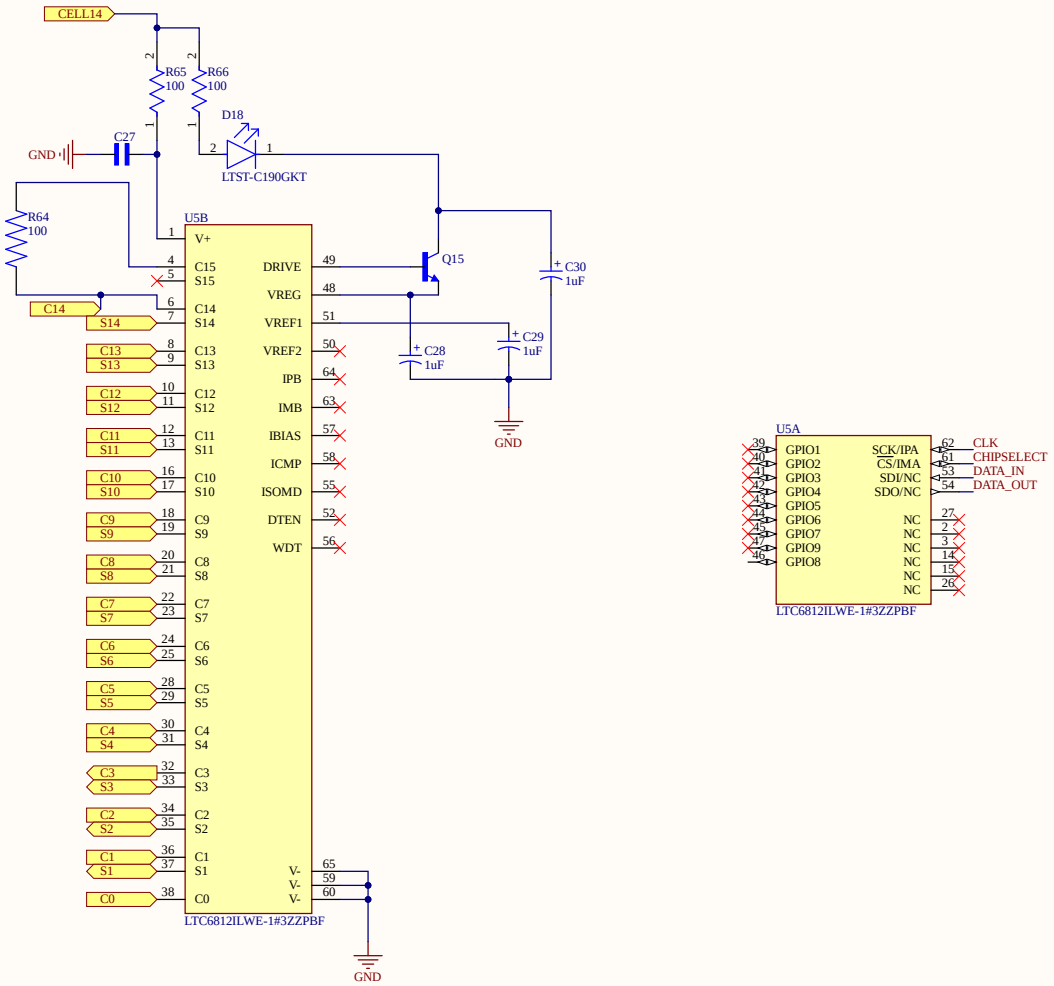


5V to 12V



Found Buck Converter that converted 60V to 5V,1A .
For future iteration , consider 60V to 12V and then parallel power the FAN rather than this method .
Get Feedback from seniors or other personnel

Title		
Size A4	Number	Revision
Date: 3-31-2024	Sheet of	
File: C:\Joshua DATA\..\PowerConversion.SchDoc	Drawn By:	



Title		
Size A3	Number	Revision
Date: 3-31-2024		Sheet of
File: C:\Joshua DATA\..\LT6813.SchDoc		Drawn By:

Board Stack Report