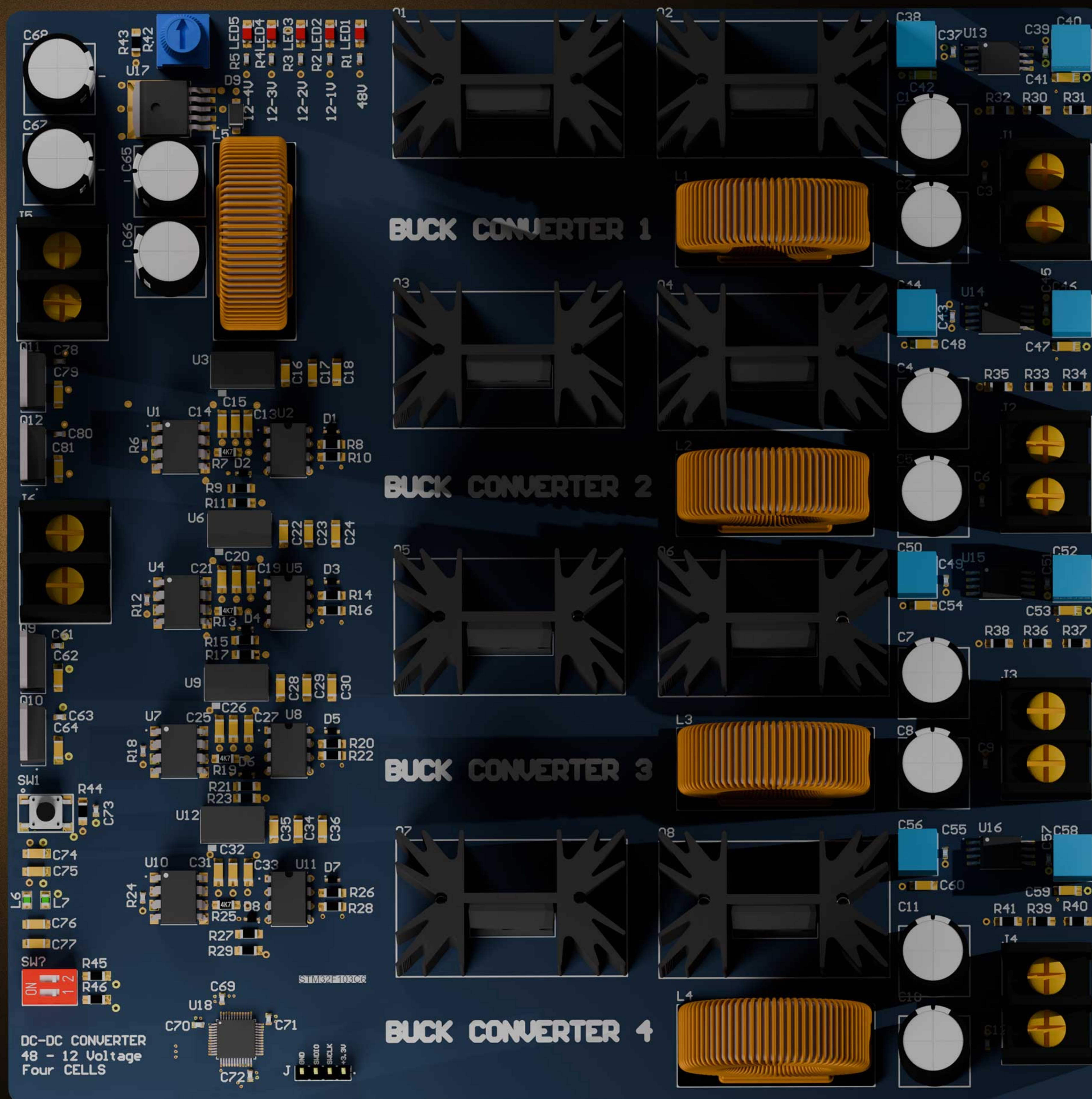
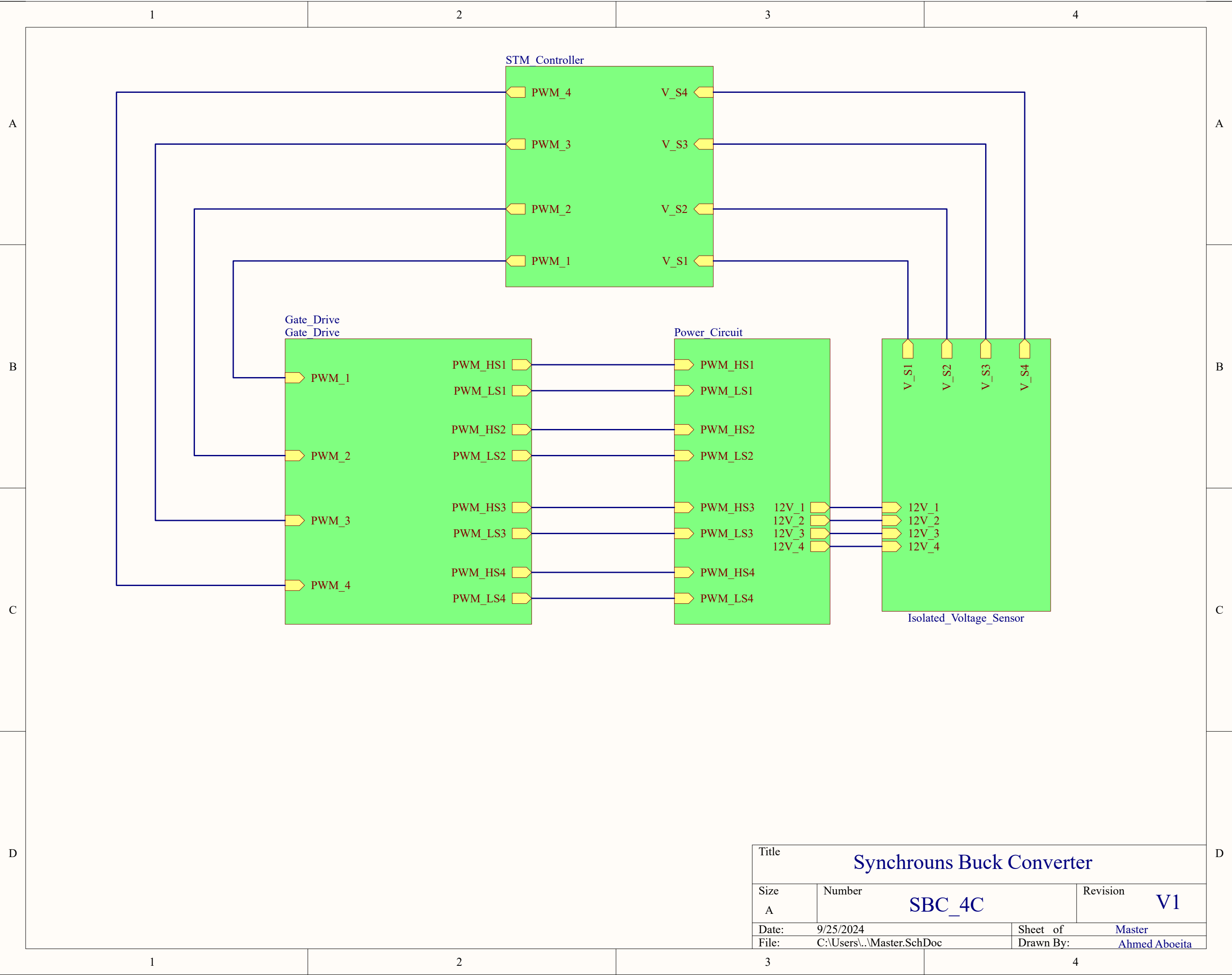


48-12V

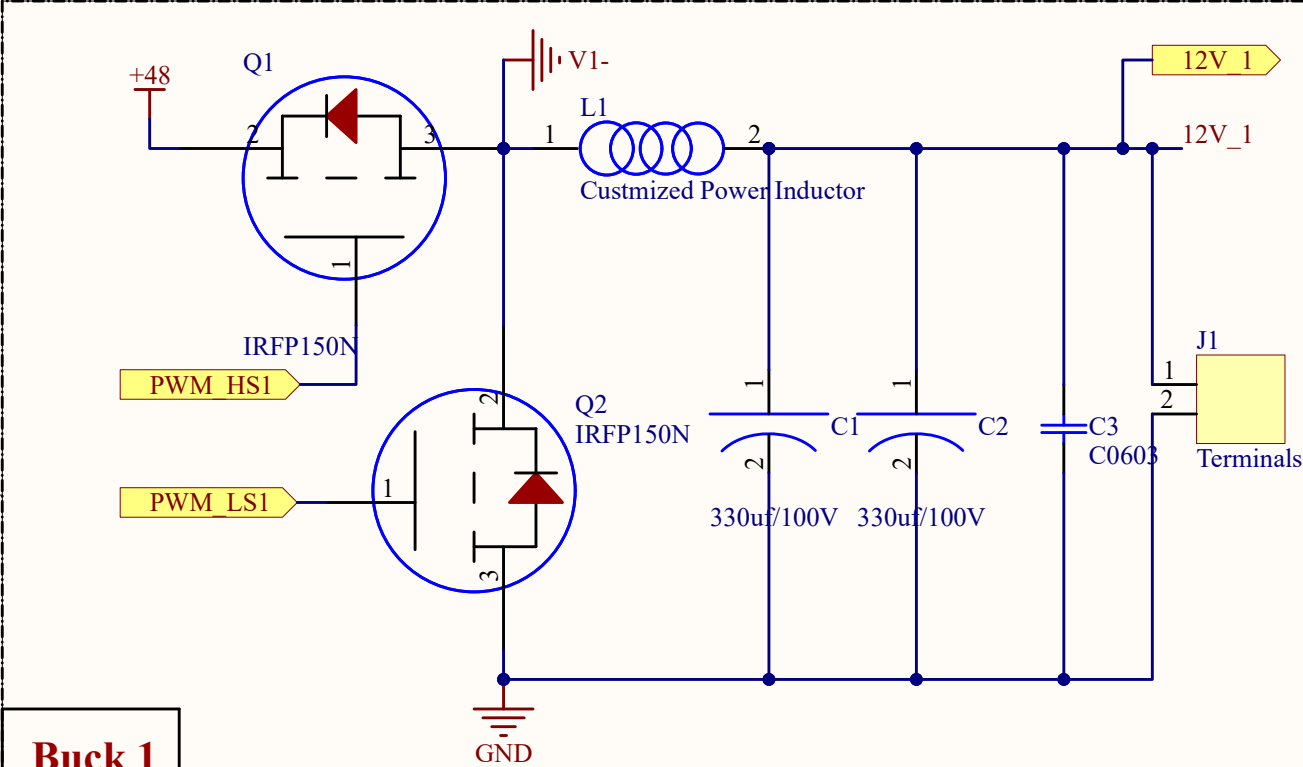
BUCK CONVERTER



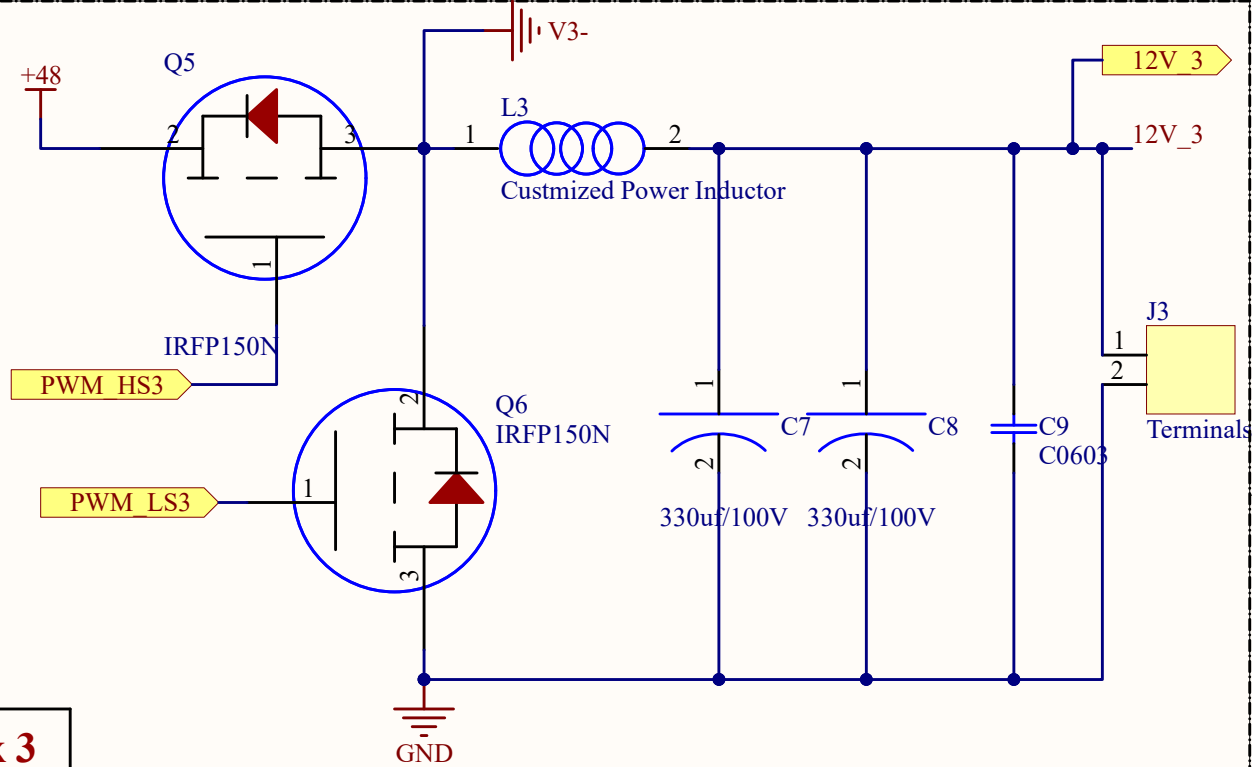
- Buck Converter 48-12V
- 4 Bucks in one board
 - output 12V
 - Max current $30A \times 4 = 120A$
- Controlling output using MCU STM32F103C6
- Isolation of MCU
- Output Voltage sensing



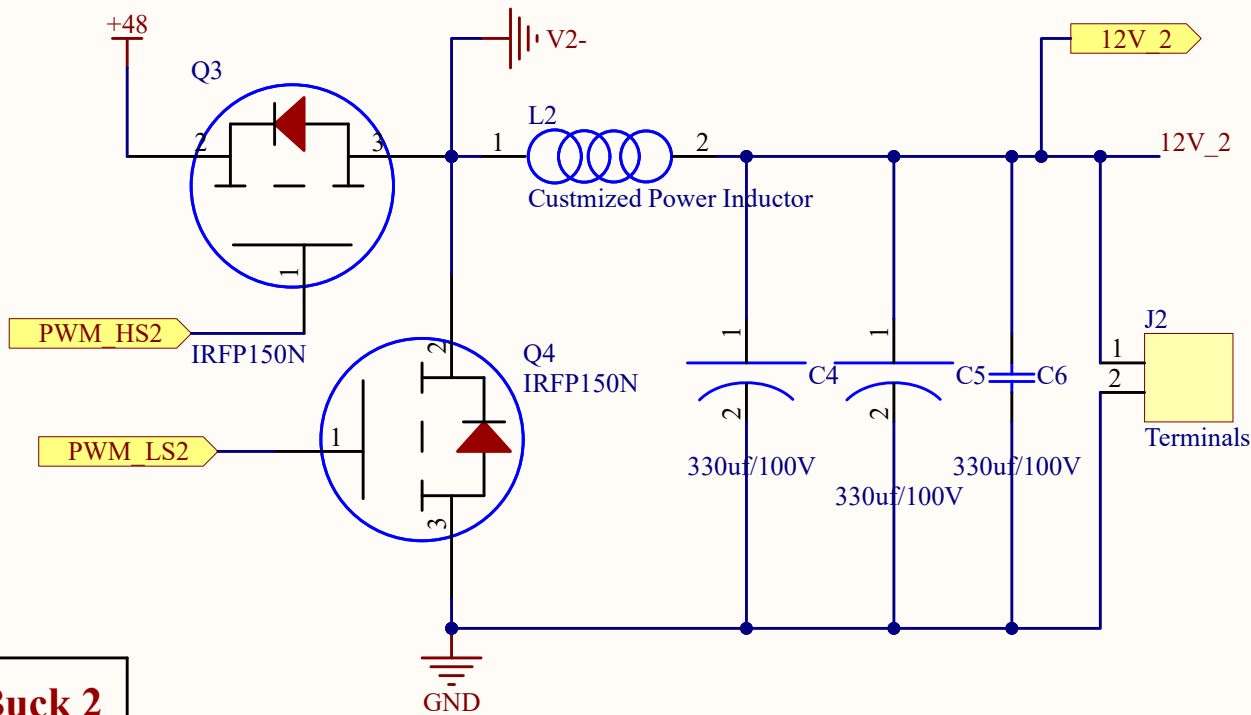
Title			
Synchronous Buck Converter			
Size	Number		Revision
A	SBC_4C		V1
Date:	9/25/2024	Sheet of	Master
File:	C:\Users\...\Master.SchDoc	Drawn By:	Ahmed Aboeita



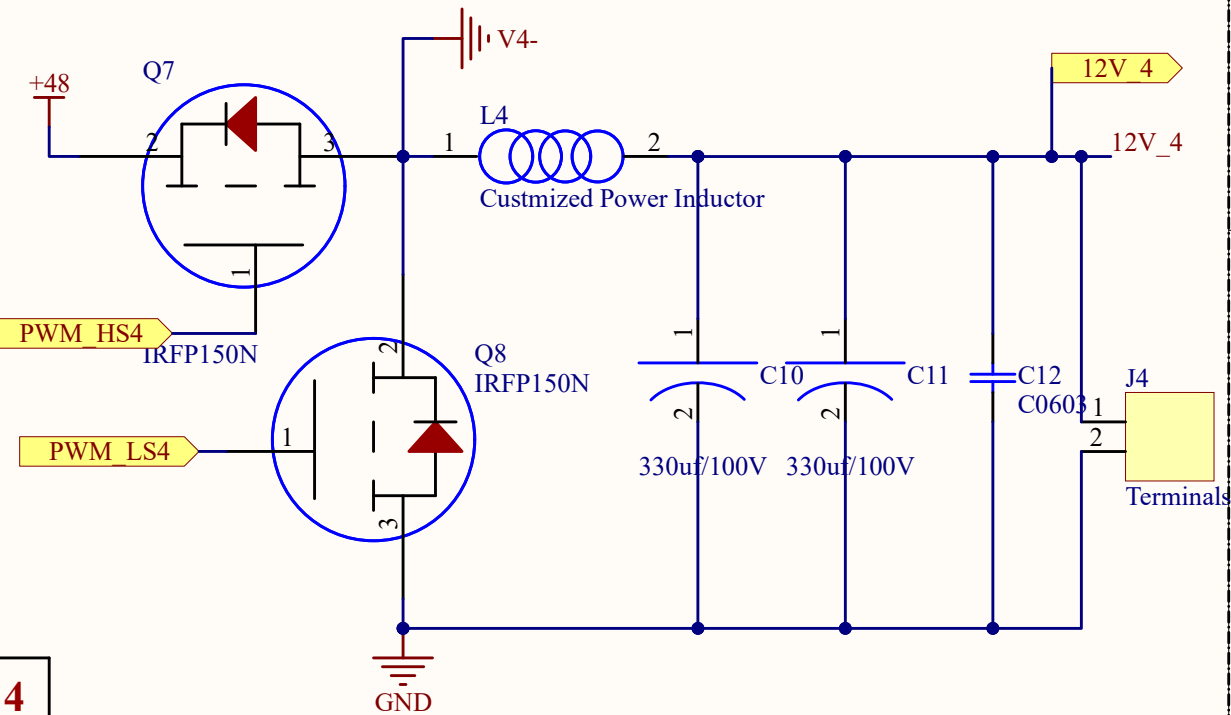
Buck 1



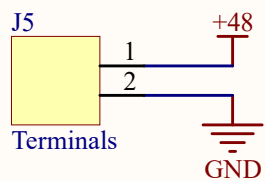
Buck 3



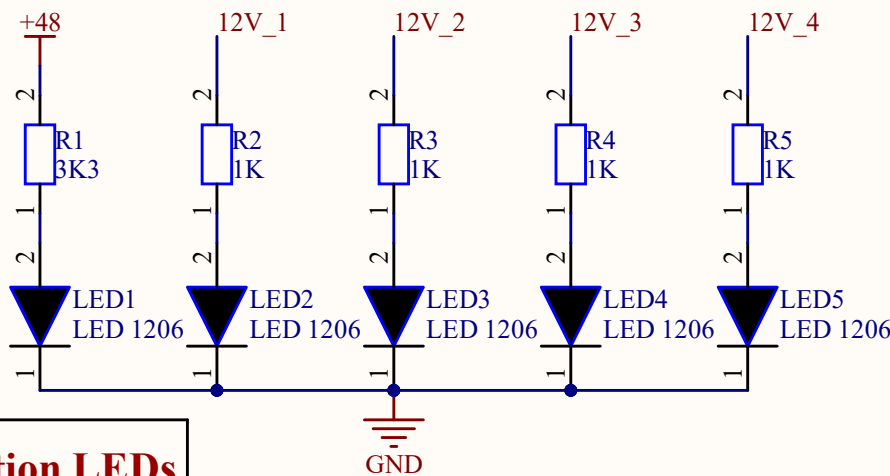
Buck 2



Buck 4

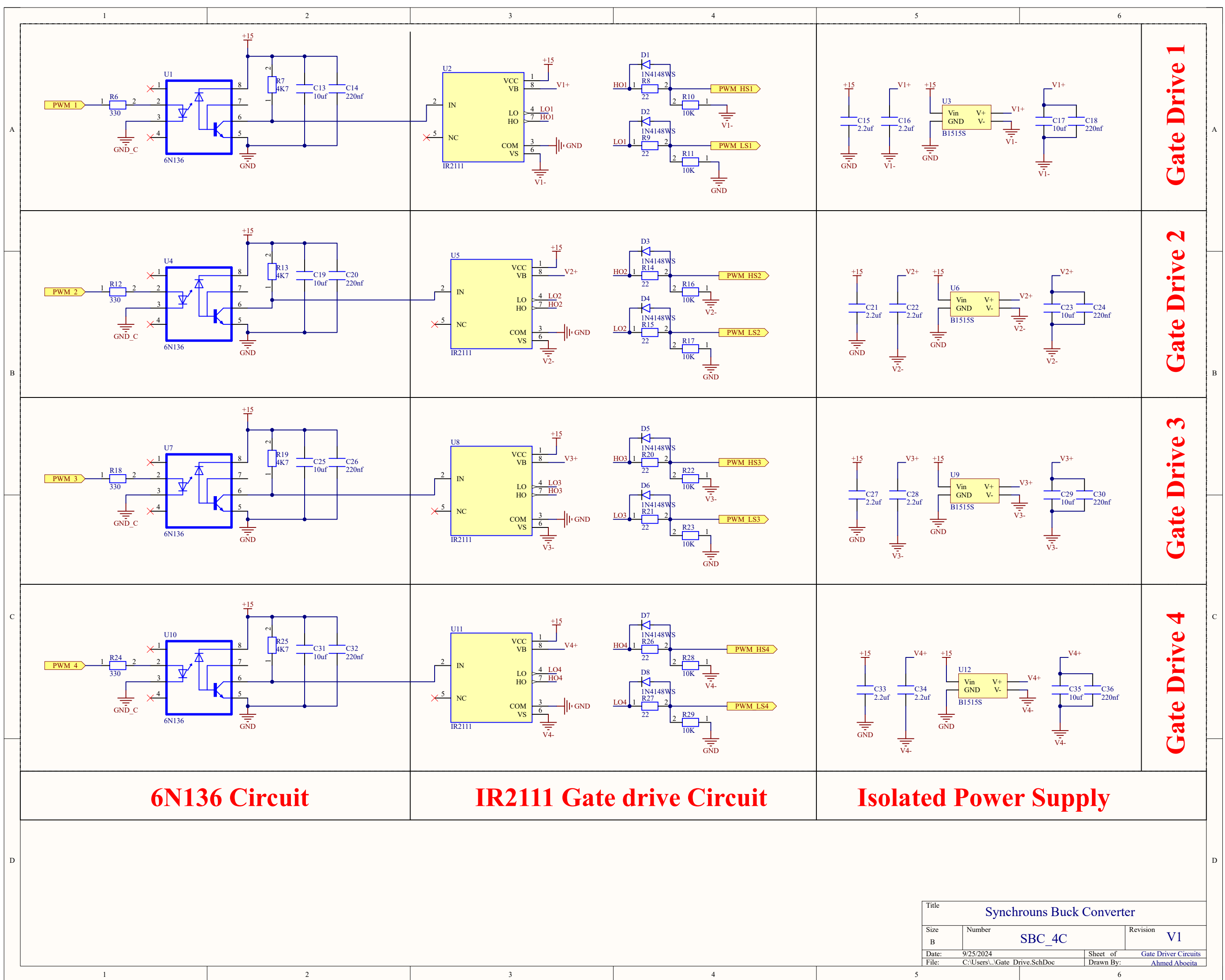


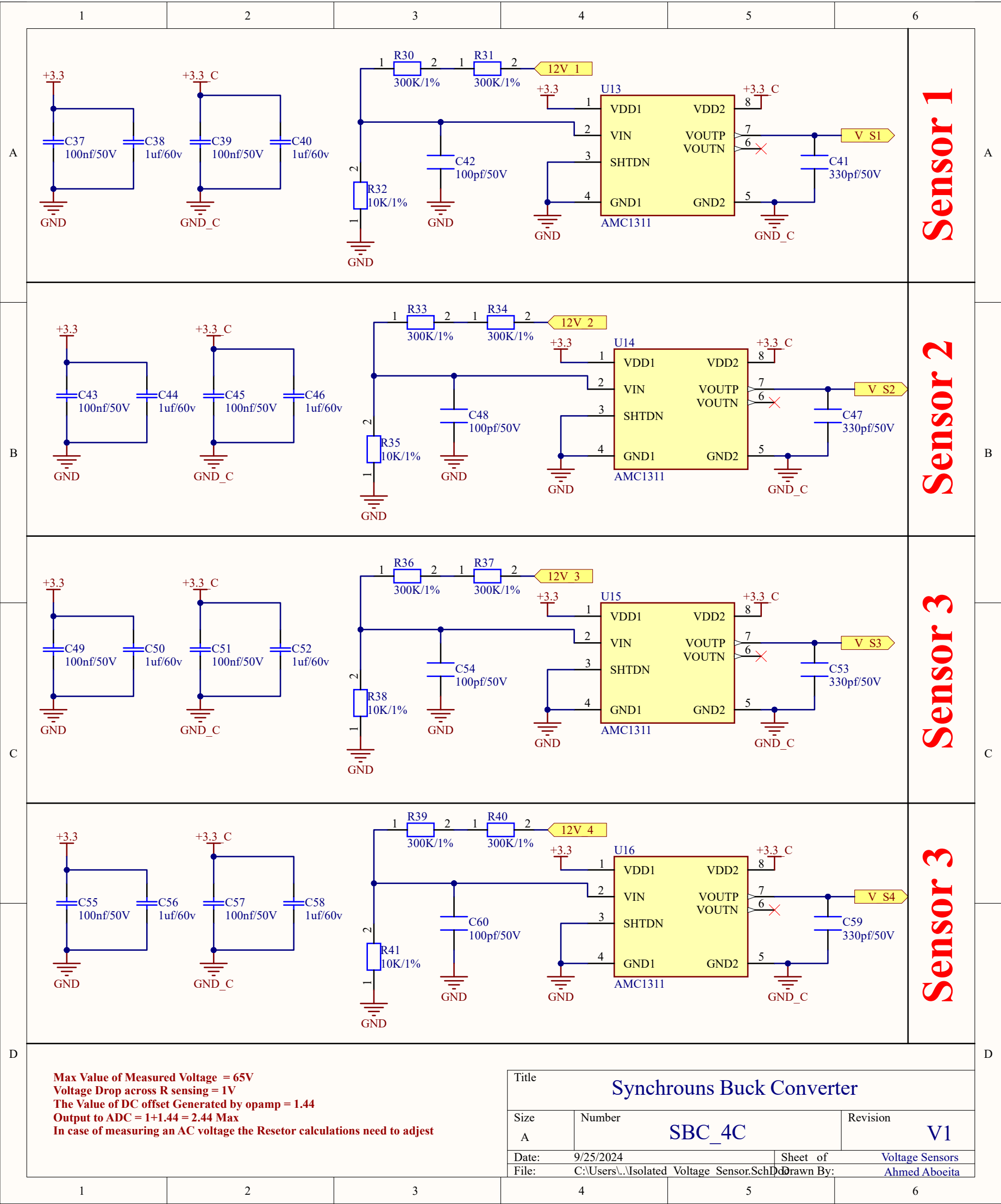
Input Power

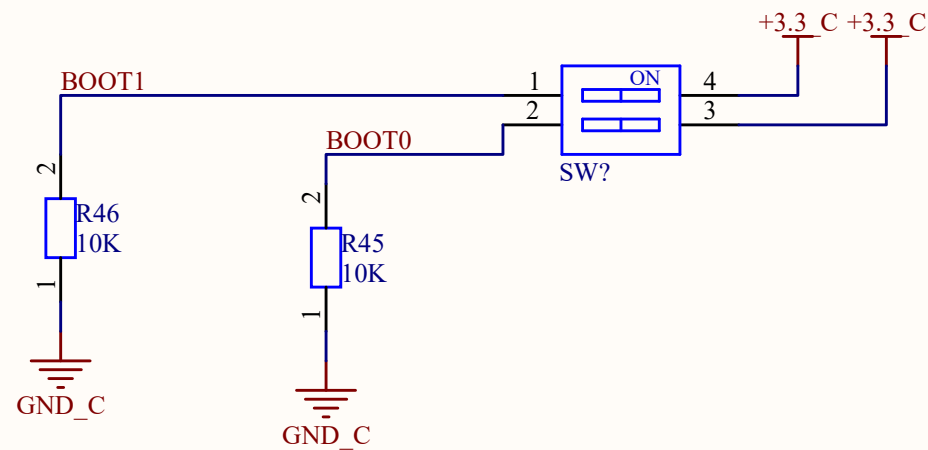
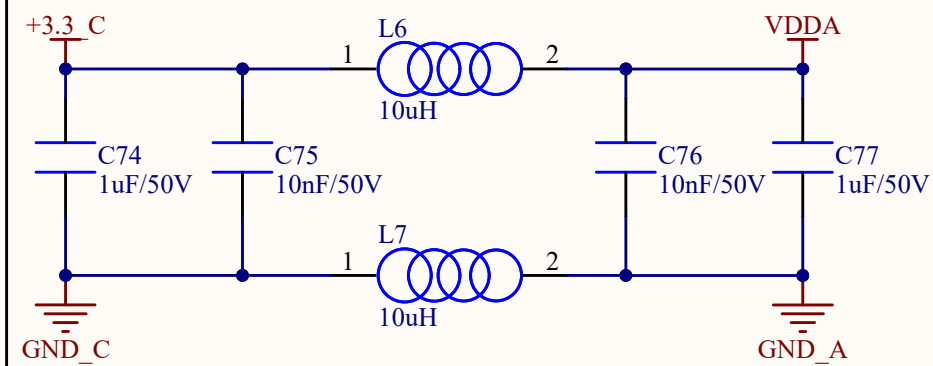
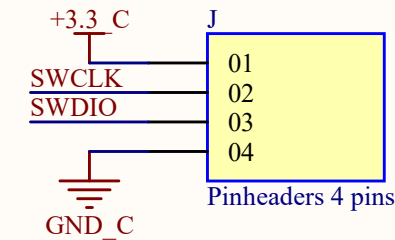
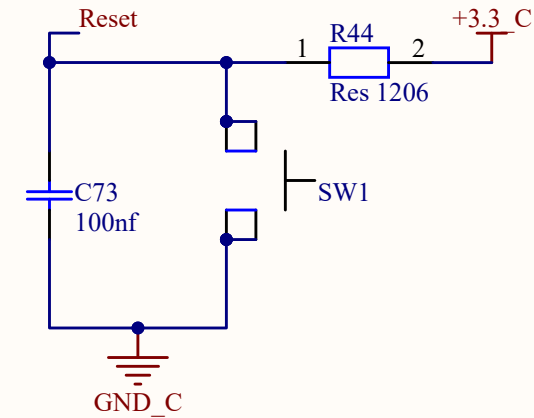
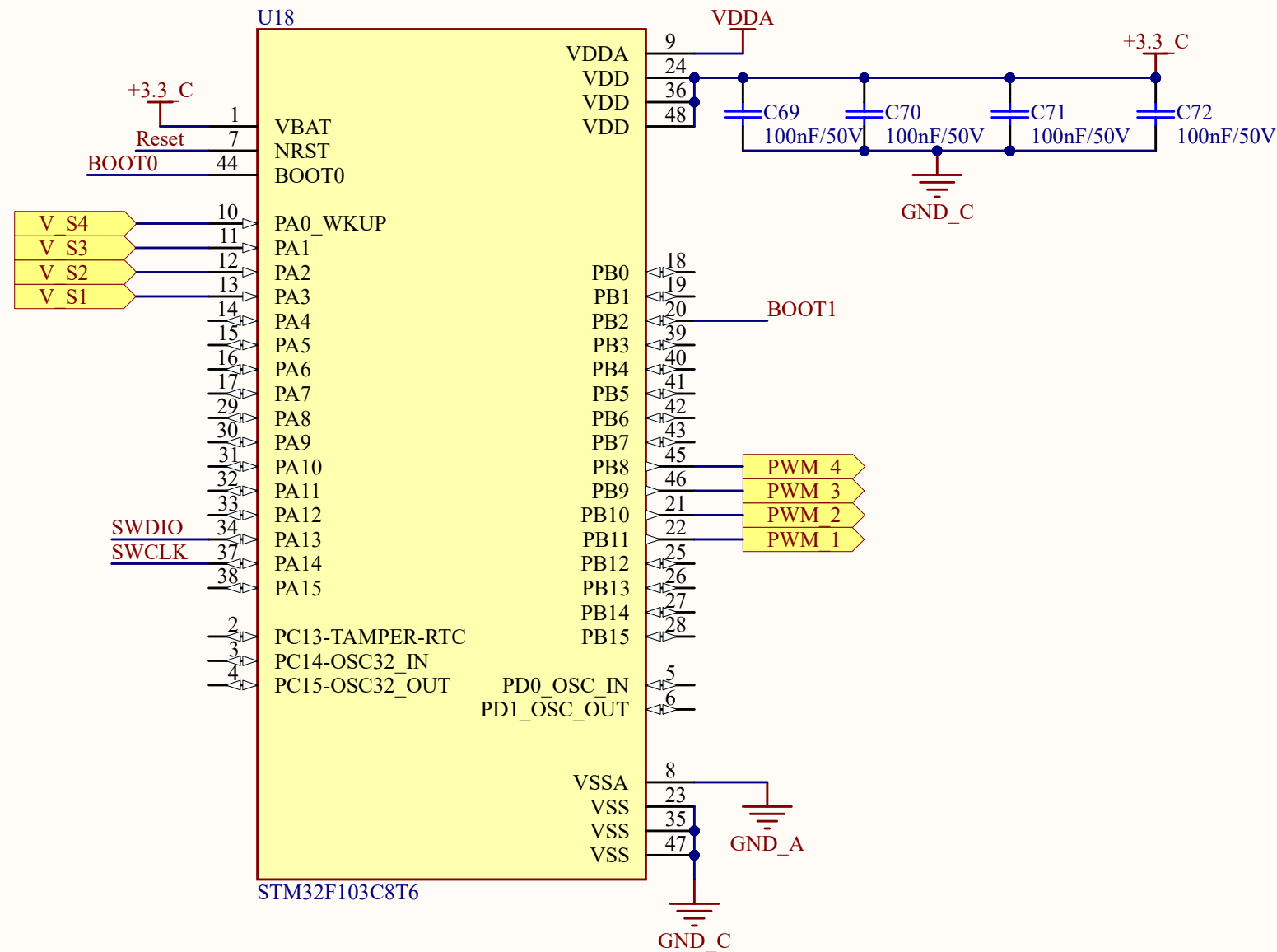


Indication LEDs

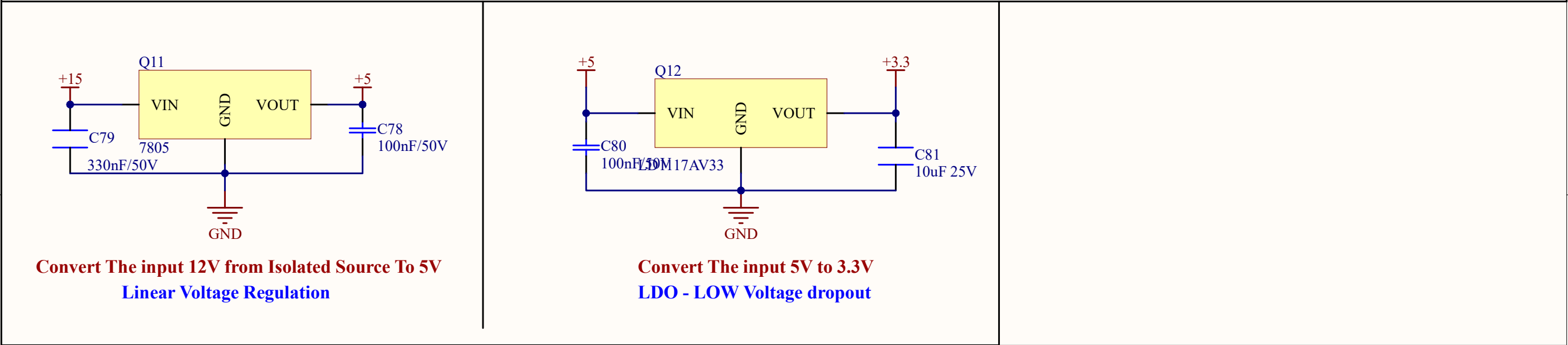
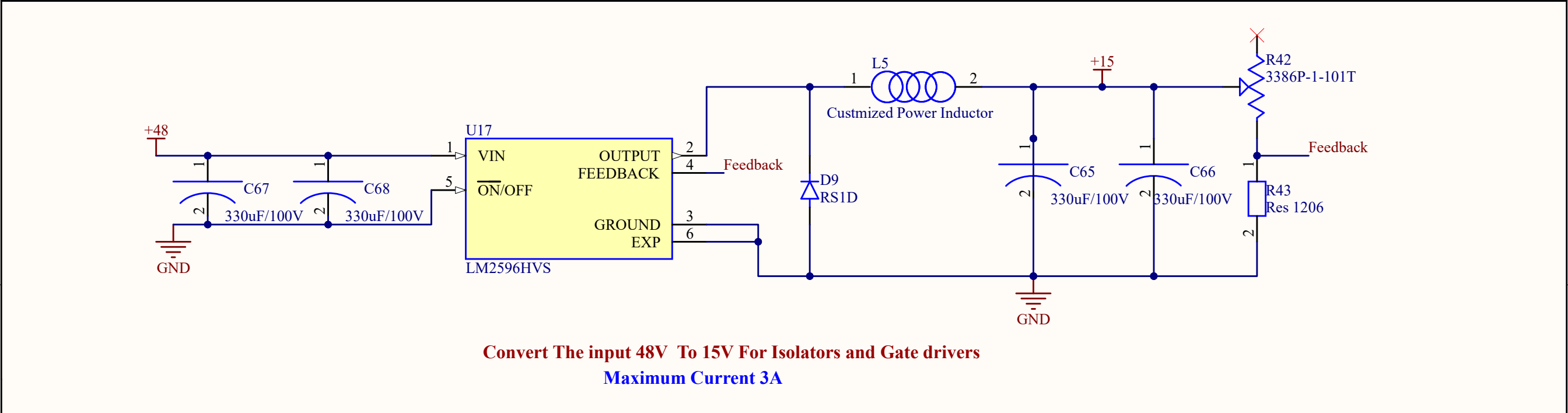
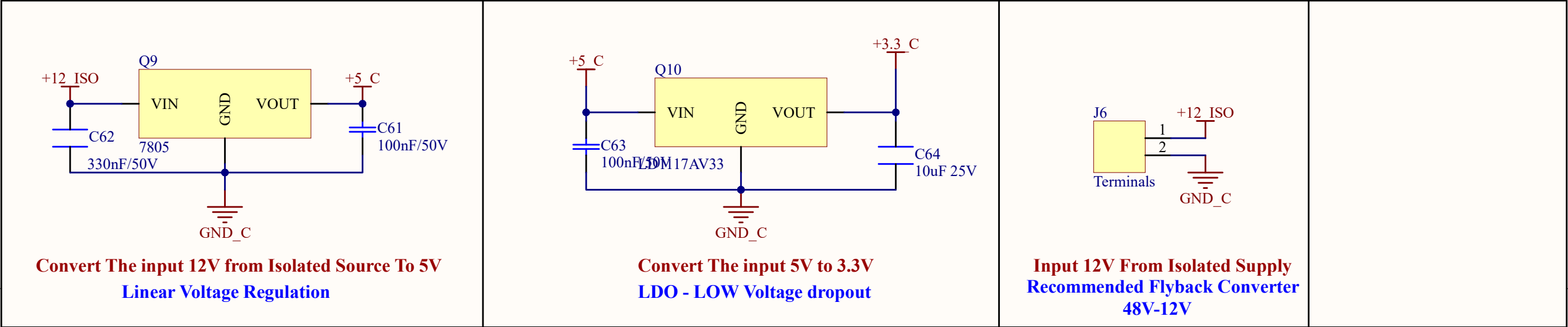
Title			
Synchrons Buck Converter			
Size	Number		Revision
A	SBC_4C		V1
Date:	9/25/2024	Sheet of	Power Circuit
File:	C:\Users\...\Power Circuit.SchDoc	Drawn By:	Ahmed Aboeita







Title			
Synchrons Buck Converter			
Size	Number		Revision
A	SBC_4C		V1
Date:	9/25/2024	Sheet of	STM
File:	C:\Users\...\STM Controller.SchDoc	Drawn By:	Ahmed Aboeita



D		Title		Synchrons Buck Converter		D	
Size		Number		Revision			
A		SBC_4C		V1			
Date:		9/25/2024		Sheet of		Power Supply	
File:		C:\Users\...\Power Supply.SchDoc		Drawn By:		Ahmed Aboeita	

