

A 1 2 3 4 5 6 7 8

Module

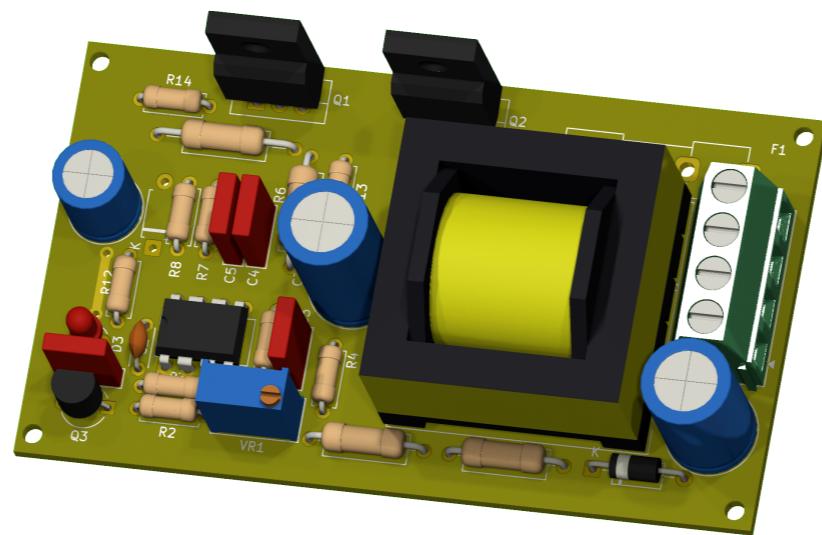
Variant: CHECKED

Rev + (Unreleased)

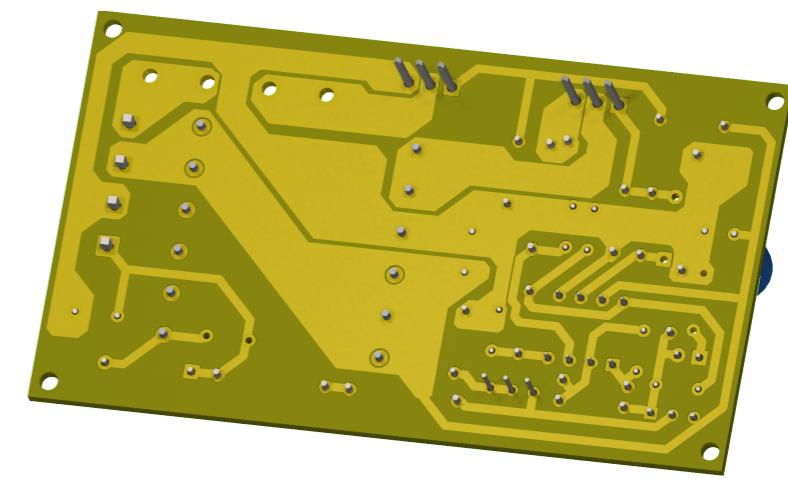
2025-12-20

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TOP VIEW



BOTTOM VIEW



NOTES

Comment

Not fitted components are marked as

DRAFT - Early concept stage, schematic drafted.

PRELIMINARY - Minor schematic changes are expected, ready for layout planning.

CHECKED - DRC completed, schematic and layout ready for review.

RELEASED - Design ready for manufacturing.

Date: 20-Dec-2025

DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational design notes.

DESIGN NOTE:
Example text for debug notes.

DESIGN NOTE:
Example text for cautionary design notes.

DESIGN NOTE:
Example text for critical design notes.

LAYOUT NOTE:
Example text for critical layout guidelines.

	Comments:	Company:	Variant:	Git Hash:
	FR		CHECKED	4fc064d
Sheet Title:	Board Name:	Project Name:		
	Module	Step-up module 12:450 V		
Sheet Path:	File Name:	Designer:	Date:	Revision:
	StepUp_module_12to450V.kicad_sch	FR	2025-01-12	+ (Unreleased)
Reviewer:	Size:	Sheet:		
	NA	A3	1	of 4

[2] Block Diagram

A

A

B

B

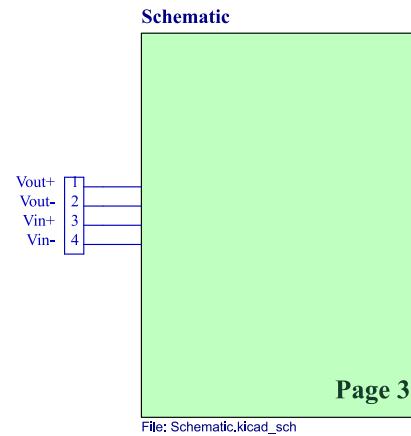
C

C

D

D

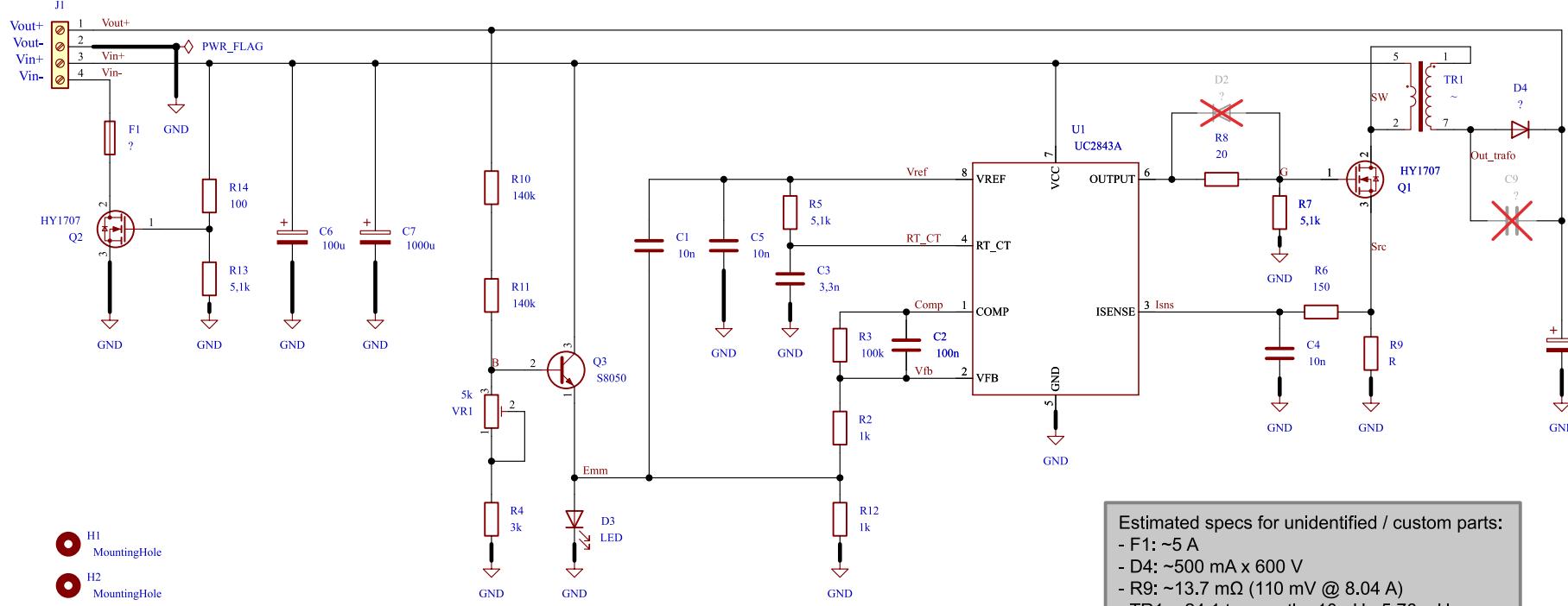
MODULE INTERFACE:
 Vin: 9 V to 2 V according to
 AliExpress product page
 Vout: 200 V to 450 V,
 adjustable through VR1



Page 3

	Comments: AliExpress module	Company: FR	Variant: CHECKED	Git Hash: 4fc064d
	Board Name: Module			Project Name: Step-up module 12:450 V
	Sheet Title: Block Diagram	File Name: Block Diagram.kicad_sch	Designer: FR	Date: 2025-01-12 Revision: + (Unreleased)
	Sheet Path: /Block Diagram/		Reviewer: NA	Size: A4 Sheet: 2 of 4

[3] Schematic



		Comments: FR	Company: FR	Variant: CHECKED	Git Hash: 4fc064d
		Board Name: Module	Project Name: Step-up module 12:450 V		
		Sheet Title: Schematic	File Name: Schematic.kicad_sch	Designer: FR	Date: 2025-01-12
		Sheet Path: /Block Diagram/Schematic/		Reviewer: NA	Revision: + (Unreleased)

[4] Revision History

A	<p>Version 1.0.0 - 2025-12-19</p> <hr/> <p>First issue</p> <p>Schematic capture complete, except for parts:</p> <ul style="list-style-type: none"> - not populated (D2, C9); - with unreadable or absent markings (F1, D4, R9, TR1); 				A
B					B
C					C
D					D
		<p>Comments: "Comment 1" "Comment 2" "Comment 3" "Comment 4"</p> <p>Sheet Title: Revision History</p> <p>Sheet Path: /Revision History/</p>	<p>Company: FR</p> <p>Board Name: Module</p> <p>File Name: Revision History.kicad_sch</p>	<p>Variant: CHECKED</p> <p>Project Name: Step-up module 12:450 V</p> <p>Date: 2025-01-12</p> <p>Revision: + (Unreleased)</p>	<p>Git Hash: 4fc064d</p>