

A 1 2 3 4 5 6 7 8  
A Module

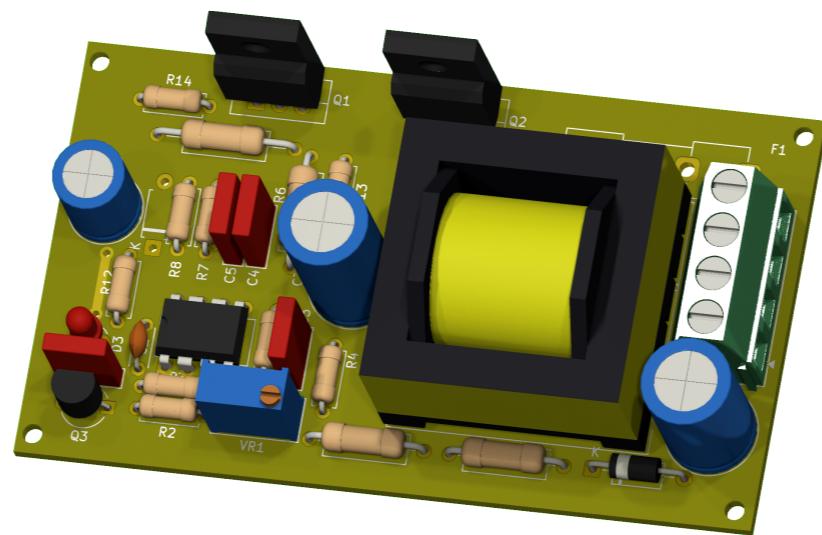
B Variant: CHECKED

A Rev + (Unreleased)

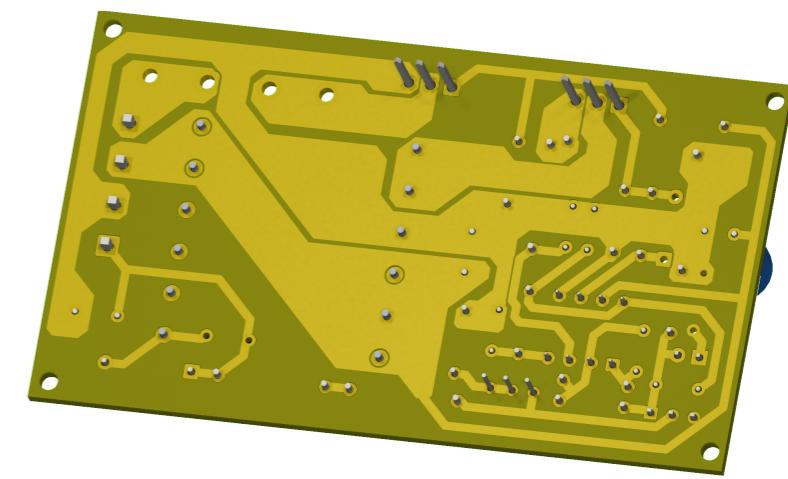
B 2025-12-19

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C TOP VIEW



D BOTTOM VIEW



## NOTES

E 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: 19-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.

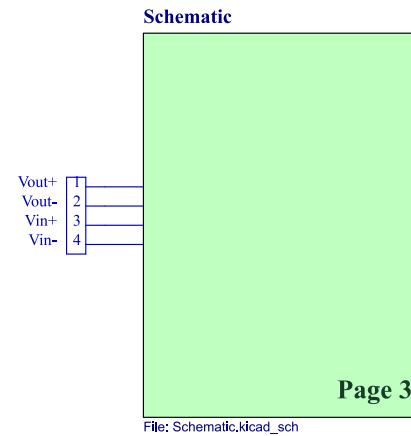
DESIGN NOTE:  
Example text for critical design notes.

LAYOUT NOTE:  
Example text for critical layout guidelines.

	Comments:	Company:	Variant:	Git Hash:
	FR		CHECKED	00f0a22
	Board Name:	Project Name:		
	Module	Step-up module 12:450 V		
	Sheet Title:	File Name:	Designer:	Date: Revision:
		StepUp_module_12to450V.kicad_sch	FR	2025-01-12 + (Unreleased)
	Sheet Path:	/	Reviewer:	Size: Sheet:
			NA	A3 1 of 4

# [2] Block Diagram

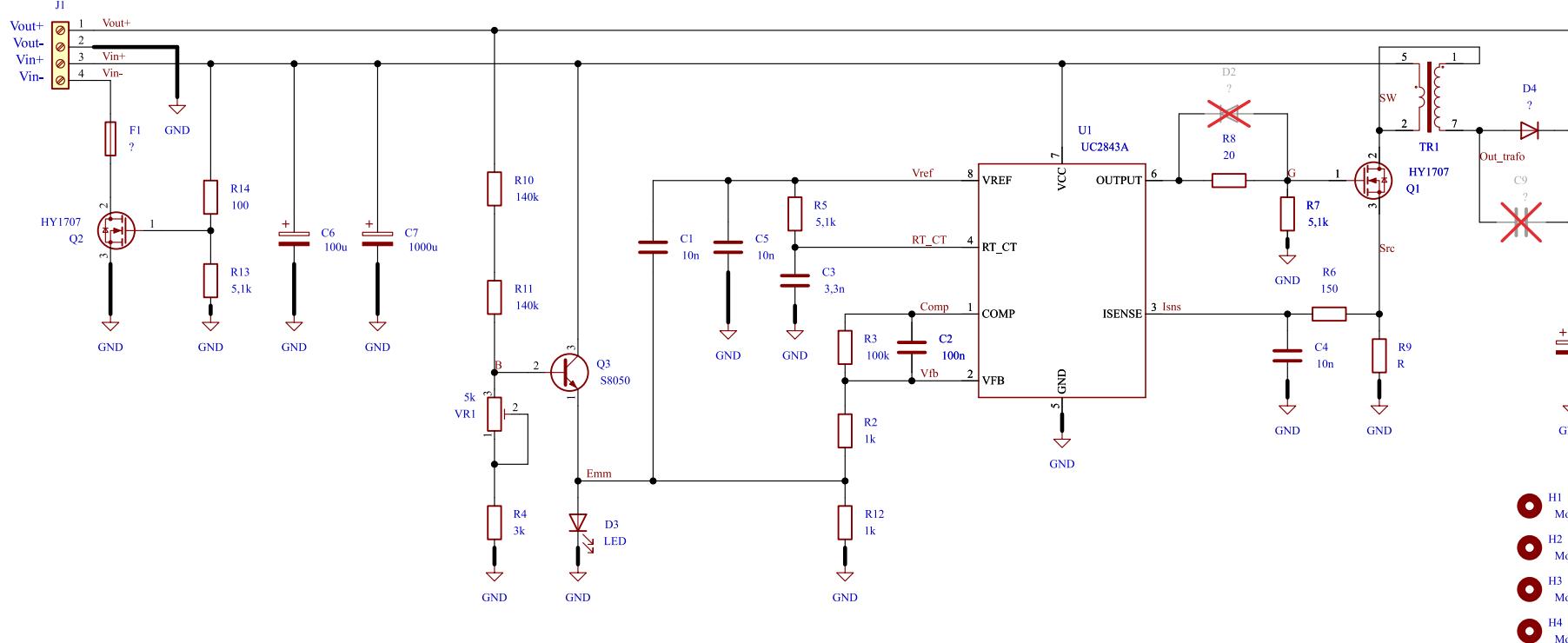
**MODULE INTERFACE:**  
 Vin: 9 V to 2 V according to  
 AliExpress product page  
 Vout: 200 V to 450 V,  
 adjustable through VR1



Page 3

	Comments: AliExpress module	Company: <b>FR</b>	Variant: CHECKED	Git Hash: 00fa22
	Board Name: <b>Module</b>			Project Name: <b>Step-up module 12:450 V</b>
	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: <b>A4</b> Sheet: <b>2</b> of <b>4</b>

### [3] Schematic



Comments:	Company:	Variant:	Git Hash:
FR	Module		
Sheet Title:	File Name:	Date:	Revision:
Schematic	Schematic.kicad_sch	FR	2025-01-12 + (Unreleased)
Sheet Path:	Reviewer:	Size:	Sheet:
/Block Diagram/Schematic/	NA	A4	3 of 4

## [4] Revision History

	Comments: "Comment 1" "Comment 2" "Comment 3" "Comment 4"	Company: <b>FR</b>	Variant: CHECKED	Git Hash: 00f0a22
		Board Name: <b>Module</b>	Project Name: <b>Step-up module 12:450 V</b>	
	Sheet Title: Revision History	File Name: Revision History.kicad_sch	Designer: FR	Date: 2025-01-12 Revision: + (Unreleased)
	Sheet Path: /Revision History/	Reviewer: NA	Size: <b>A4</b>	Sheet: <b>4</b> of <b>4</b>