

Module

Randomsone

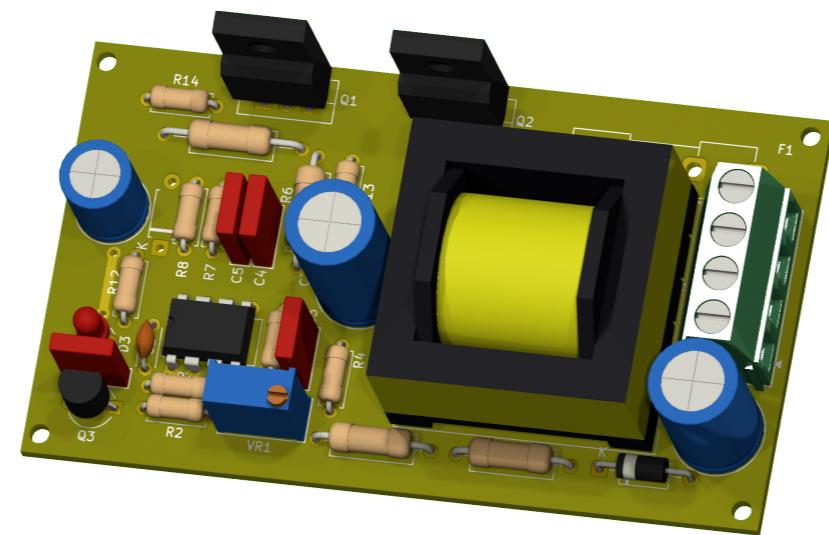
Variant: CHECKED

Rev + (Unreleased)

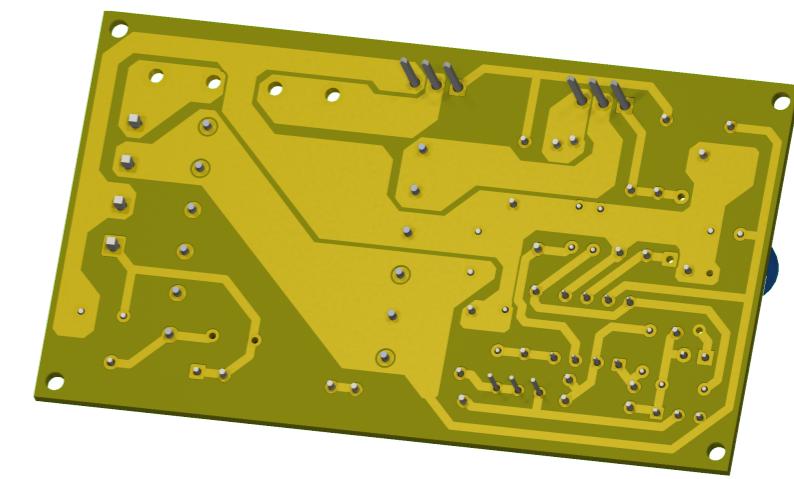
2025-12-19

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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: 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.

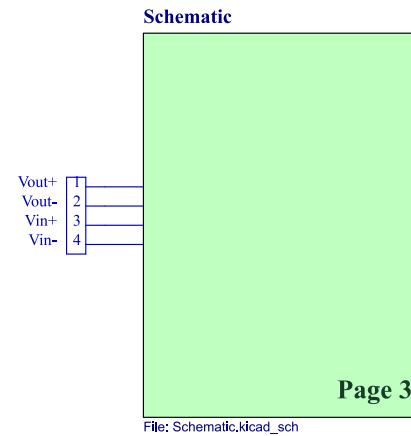
DESIGN NOTE:  
Example text for critical design notes.

LAYOUT NOTE:  
Example text for critical layout guidelines.

	Comments:  FR	Variant: CHECKED		Git Hash: 84a1906
		Board Name: <b>Module</b>		Project Name: <b>Step-up module 12:450 V</b>
	Sheet Title:  File Name: StepUp_module_12to450V.kicad_sch	Designer: FR	Date: 2025-01-12	Revision: + (Unreleased)
	Sheet Path:  /	Reviewer: NA	Size: <b>A3</b>	Sheet: <b>1 of 4</b>

# [2] Block Diagram

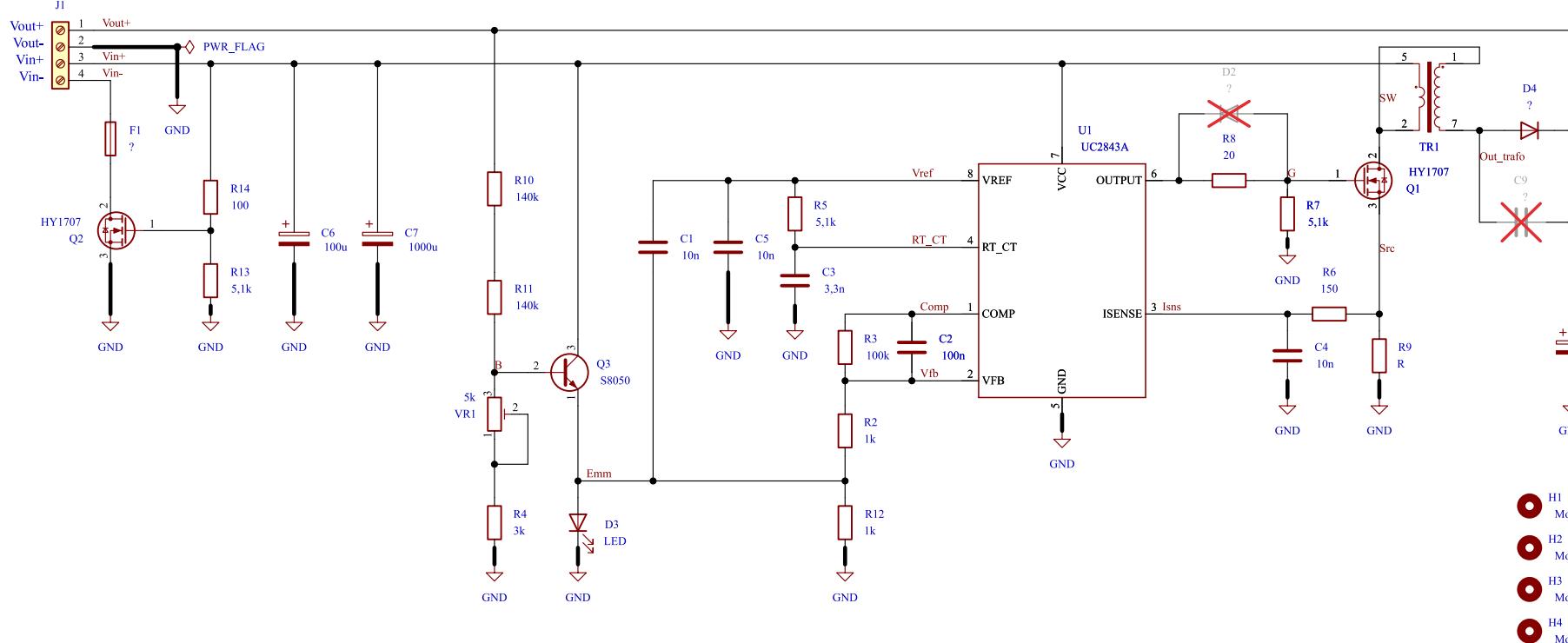
**MODULE INTERFACE:**  
 Vin: 9 V to 2 V according to  
 AliExpress product page  
 Vout: 200 V to 450 V,  
 adjustable through VR1



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	Comments: AliExpress module	Company: <b>FR</b>	Variant: CHECKED	Git Hash: 84a1906
	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		
Board Name:	Project Name:		
Sheet Title:	File Name:	Designer:	Date: Revision:
Schematic	Schematic.kicad_sch	FR	2025-01-12 + (Unreleased)
Sheet Path:	Reviewer:		
/Block Diagram/Schematic/	NA		
	Size:	Sheet:	
	A4	3 of 4	

## [4] Revision History

A	<b>Version 1.0.0 - 2025-12-19</b>	<b>Version 1.0.1 - 2025-12-18</b>	<b>Version 1.0.2 - 2025-12-17</b>	<b>Version 1.1.0 - 2025-12-16</b>	A
B	First issue  Schematic capture complete, except for parts which are not populated (D2, C9), with unreadable markings (F1, D4) or otherwise difficult to determine the original specification (R9, too low resistance to measure with a regular multimeter)	EMPTY1  - Nada  - Nic		EMPTY3	B
C					C
D			<p>Comments: "Comment 1" "Comment 2" "Comment 3" "Comment 4"</p> <p>Company: <b>FR</b></p> <p>Board Name: <b>Module</b></p> <p>Sheet Title: Revision History</p> <p>File Name: Revision History.kicad_sch</p> <p>Designer: FR</p> <p>Sheet Path: <a href="#">/Revision History/</a></p> <p>Reviewer: NA</p>	<p>Variant: <b>CHECKED</b></p> <p>Git Hash: 84a1906</p> <p>Project Name: <b>Step-up module 12:450 V</b></p> <p>Date: 2025-01-12</p> <p>Revision: + (Unreleased)</p> <p>Size: <b>A4</b></p> <p>Sheet: <b>4 of 4</b></p>	D