

Module

Randoms

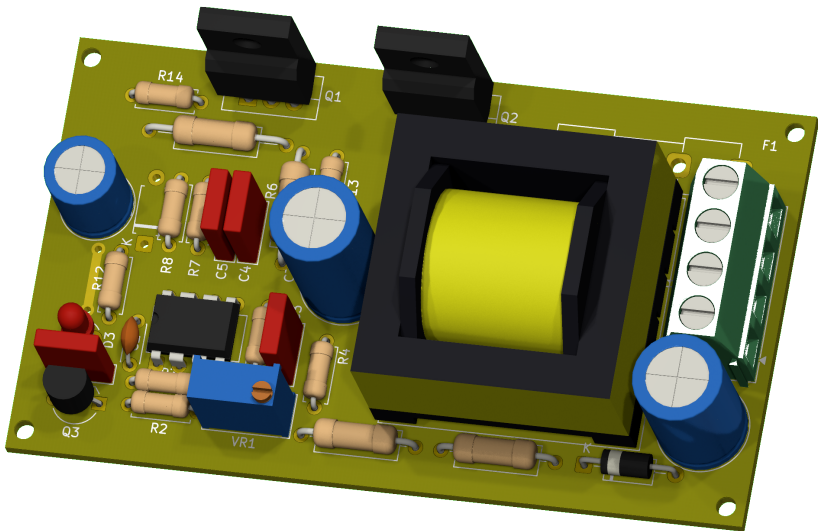
Rev + (Unreleased)

Variant: CHECKED

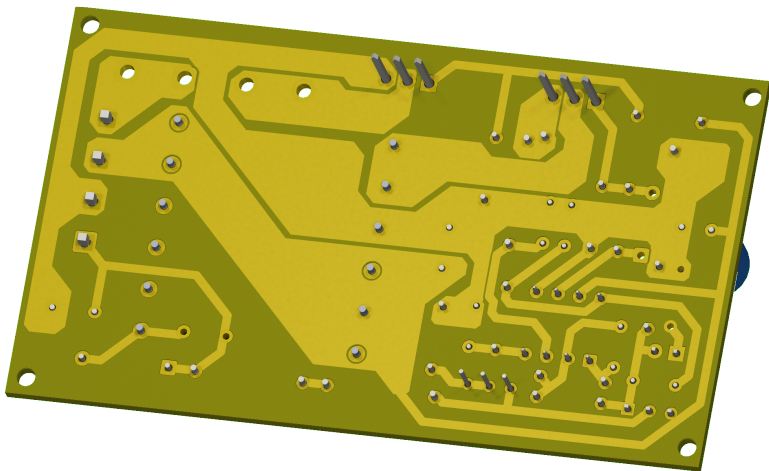
2025-12-19

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TOP VIEW



BOTTOM VIEW



NOTES

Comment

Not fitted components are marked as X

- 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.

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.

Date: 19-Dec-2025

	Comments:	Company: FR		Variant: CHECKED	Git Hash: 0c3d0d1
		Board Name: Module		Project Name: Step-up module 12:450 V	
	Sheet Title:	File Name: StepUp_module_12to450V.kicad_sch	Designer: FR	Date: 2025-01-12	Revision: + (Unreleased)
	Sheet Path: /		Reviewer: NA	Size: A3	Sheet: 1 of 4

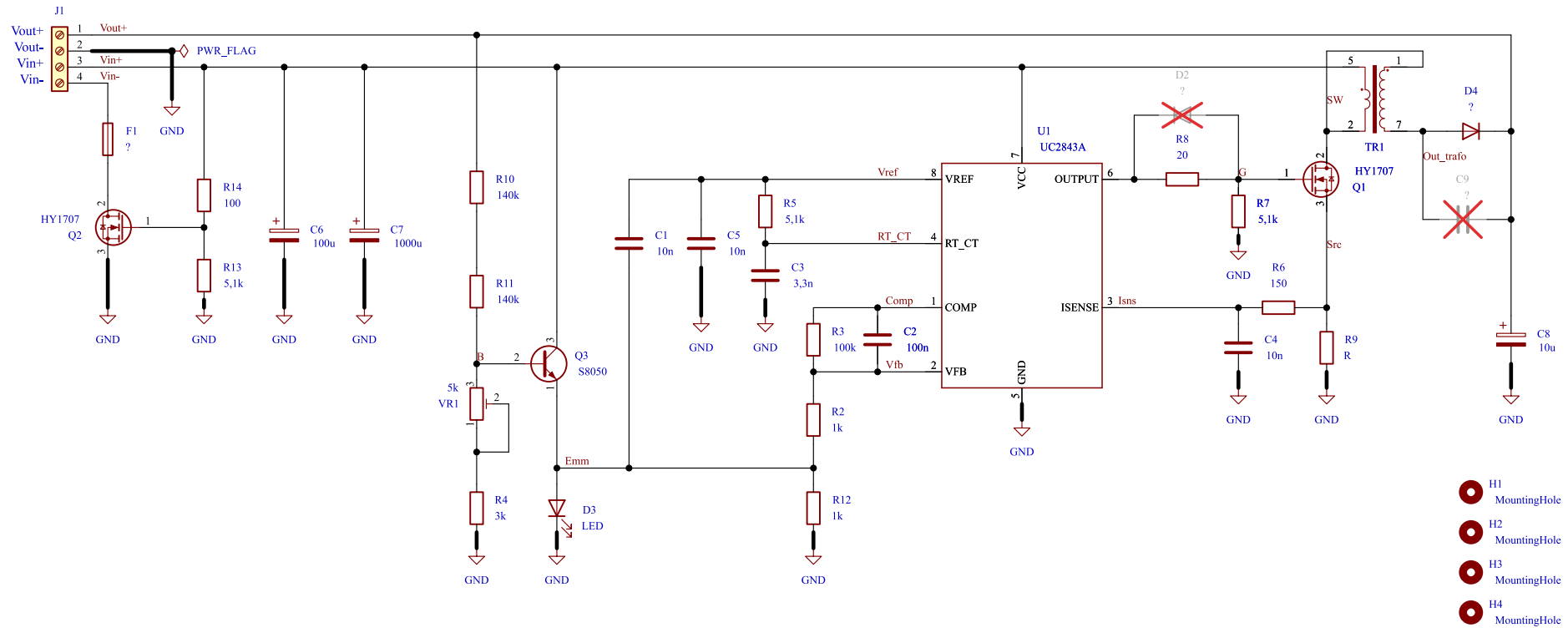
# [2] Block Diagram

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



	Comments:	Company:		Variant:	Git Hash:
	AliExpress module	FR		CHECKED	0c3d0d1
	Sheet Title:	Board Name:		Project Name:	
	Block Diagram	Module		Step-up module 12:450 V	
	Sheet Path:	File Name:	Designer:	Date:	Revision:
	/Block Diagram/	Block Diagram.kicad_sch	FR	2025-01-12	+ (Unreleased)
		Reviewer:	Size:	Sheet:	
		NA	A4	2 of 4	

# [3] Schematic



- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole

Comments:

Company:

FR

Variant:

CHECKED

Git Hash:

0c3d0d1

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

Revision:

+(Unreleased)

Sheet Path:

/Block Diagram/Schematic/

Reviewer:

NA

Size:

A4

Sheet:

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A	<div>[4] Revision History</div>					A																																													
	<div><div><div>Version 1.0.0 - 2025-12-19</div><div>First issue<ul style="list-style-type: none"><li>- Schematic</li><li>- PCB layout</li></ul></div></div><div><div>Version 1.0.1 - 2025-12-18</div><div>EMPTY1<ul style="list-style-type: none"><li>- Nada</li><li>- Nic</li></ul></div></div><div><div>Version 1.0.2 - 2025-12-17</div><div></div></div><div><div>Version 1.1.0 - 2025-12-16</div><div>EMPTY3</div></div></div>					B																																													
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Version 1.0.0 - 2025-12-19

First issue

- Schematic
- PCB layout

Version 1.0.1 - 2025-12-18

EMPTY1

- Nada
- Nic

Version 1.0.2 - 2025-12-17

Version 1.1.0 - 2025-12-16

EMPTY3

Comments:

"Comment 1"  
"Comment 2"  
"Comment 3"  
"Comment 4"

Sheet Title:

Revision History

Sheet Path:

/Revision History/

Company:

FR

Board Name:

Module

File Name:

Revision History.kicad\_sch

Designer:

FR

Reviewer:

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Variant:

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Project Name:

Step-up module 12:450 V

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