

Module

Random

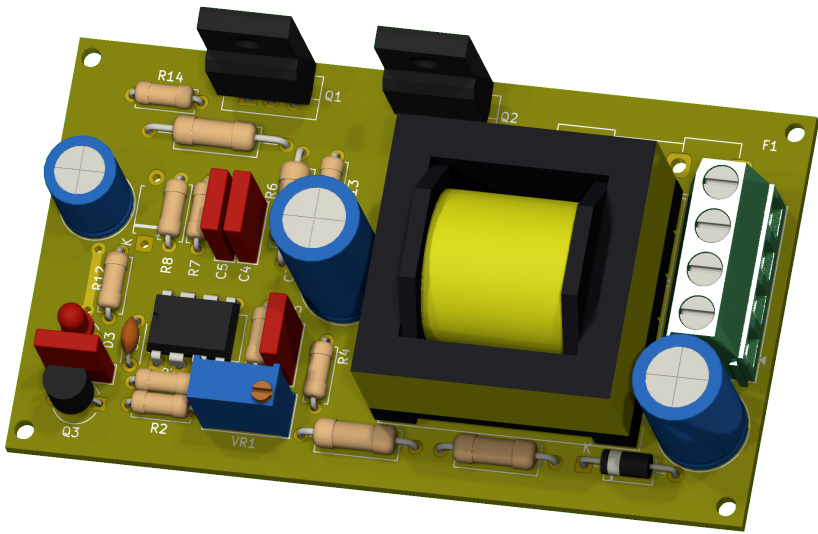
Rev + (Unreleased)

Variant: CHECKED

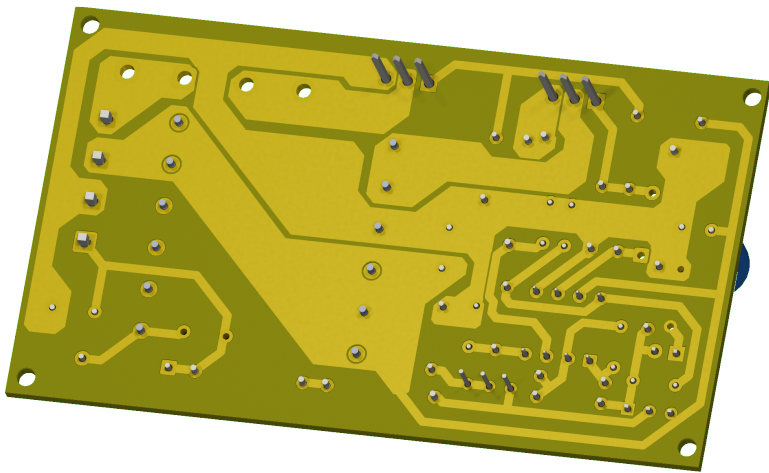
2025-12-19

Page	Index
1	Cover Page
2	Block Diagram
3	Schematic
4	Revision History
5	
6	
7	
8	
9	
10	

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.

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: FR		Variant: CHECKED	Git Hash: 6c831c9
		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

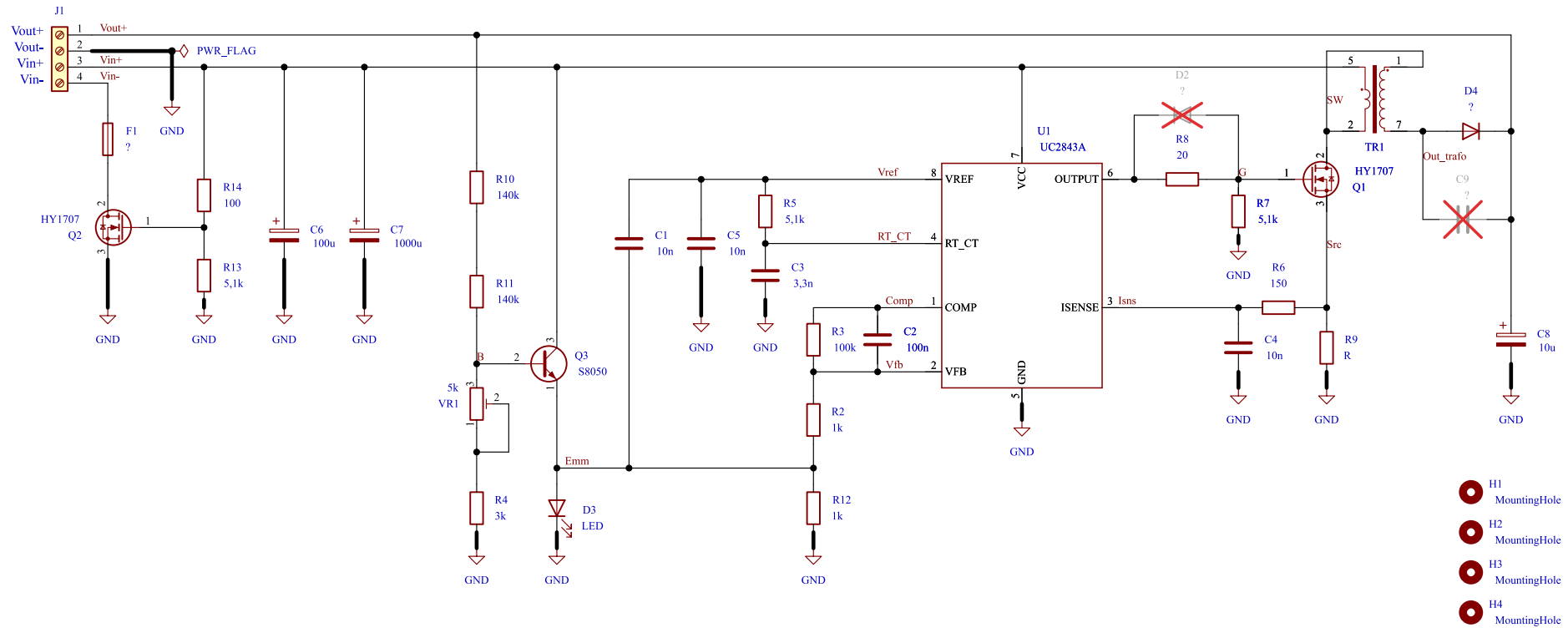
[2] Block Diagram

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	6c831c9
	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:

6c831c9

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:

3 of 4

[4] Revision History

Version 1.0.0 not found.

	<div>Comments:</div> <div>"Comment 1"</div> <div>"Comment 2"</div> <div>"Comment 3"</div> <div>"Comment 4"</div>	<div>Company:</div> <div>FR</div>	<div>Variant:</div> <div>CHECKED</div>	<div>Git Hash:</div> <div>6c831c9</div>	
		<div>Board Name:</div> <div>Module</div>	<div>Project Name:</div> <div>Step-up module 12:450 V</div>		
	<div>Sheet Title:</div> <div>Revision History</div>	<div>File Name:</div> <div>Revision History.kicad_sch</div>	<div>Designer:</div> <div>FR</div>	<div>Date:</div> <div>2025-01-12</div>	<div>Revision:</div> <div>+ (Unreleased)</div>
	<div>Sheet Path:</div> <div>/Revision History/</div>		<div>Reviewer:</div> <div>NA</div>	<div>Size:</div> <div>A4</div>	<div>Sheet:</div> <div>4 of 4</div>