

Module

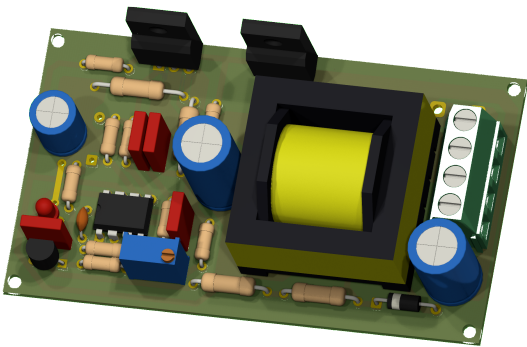
Rev + (Unreleased)

Variant: PRELIMINARY

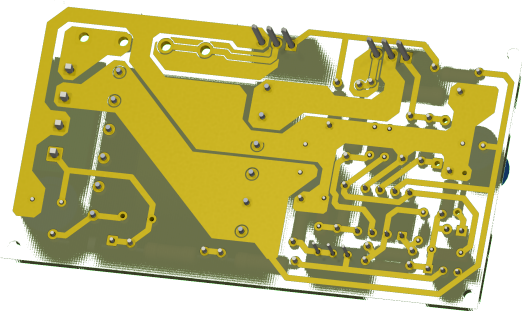
2025-12-14

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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.

Date: 14-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: PRELIMINARY	Git Hash: 95cd2d0
		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

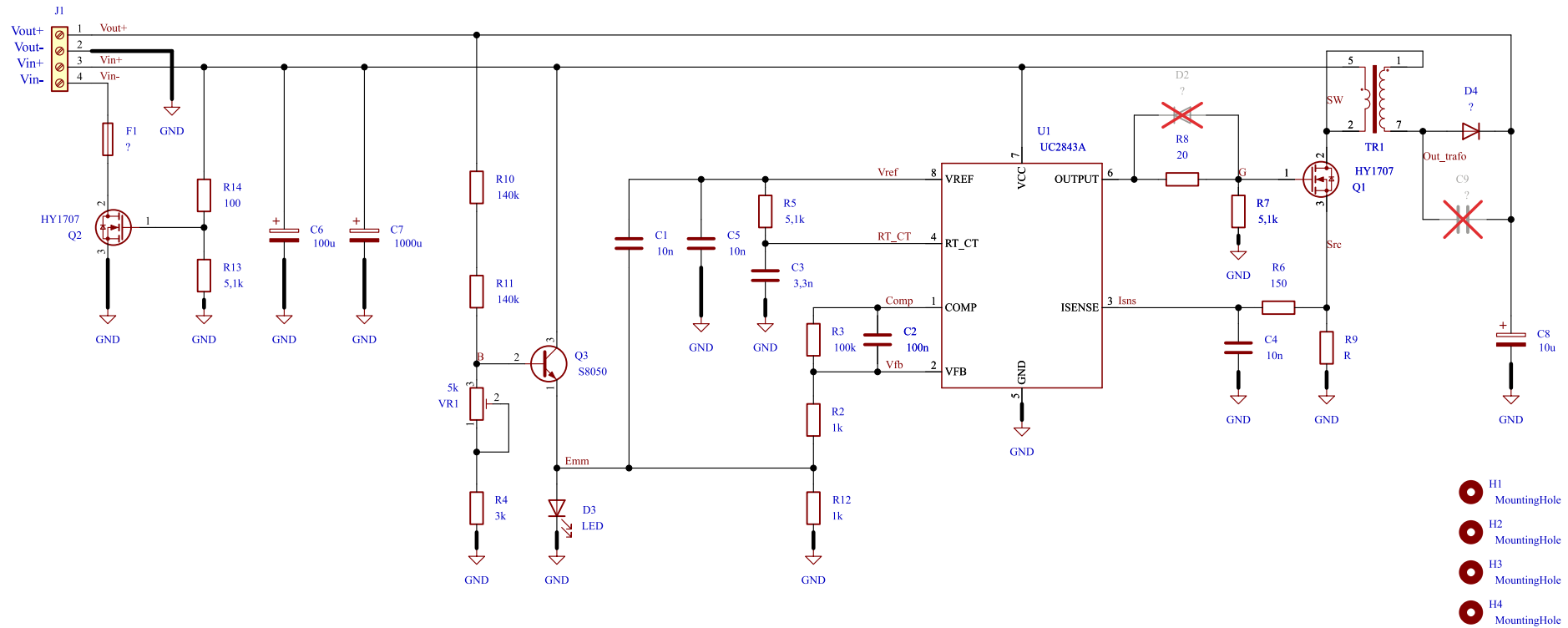
[2] Block Diagram

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		PRELIMINARY	95cd2d0
	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



Comments:

Company:

FR

Variant:

PRELIMINARY

Git Hash:

95cd2d0

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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[4] Revision History

	Comments:	Company:	Variant:	Git Hash:	
	"Comment 1"	FR	PRELIMINARY	95cd2d0	
	"Comment 2"	Board Name:		Project Name:	
	"Comment 3"	Module		Step-up module 12:450 V	
"Comment 4"	Sheet Title:	File Name:	Designer:	Date:	Revision:
	Revision History	Revision History.kicad_sch	FR	2025-01-12	+ (Unreleased)
	Sheet Path:	Reviewer:	Size:	Sheet:	
/Revision History/	NA	A4	4 of 4		