

# Module

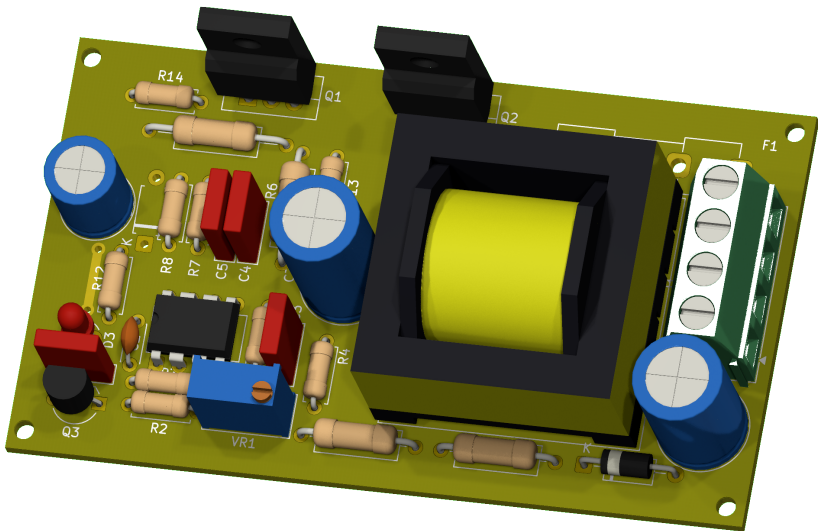
Variant: CHECKED

Rev + (Unreleased)

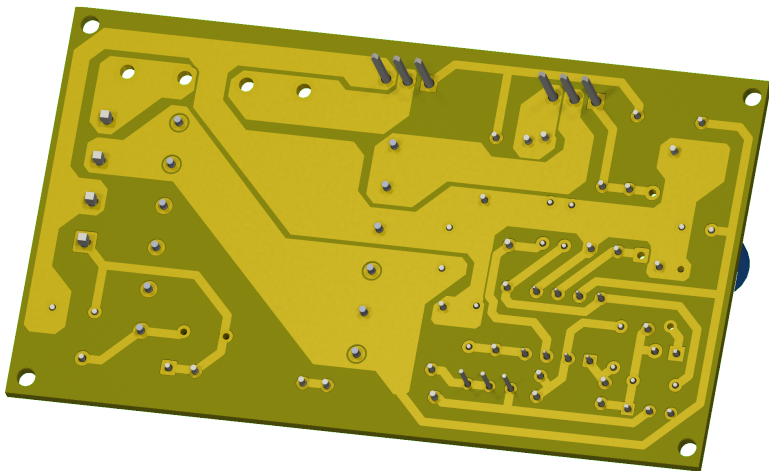
2025-12-20

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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: 20-Dec-2025

	Comments:	Company: FR		Variant: CHECKED	Git Hash: 4fc064d
		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

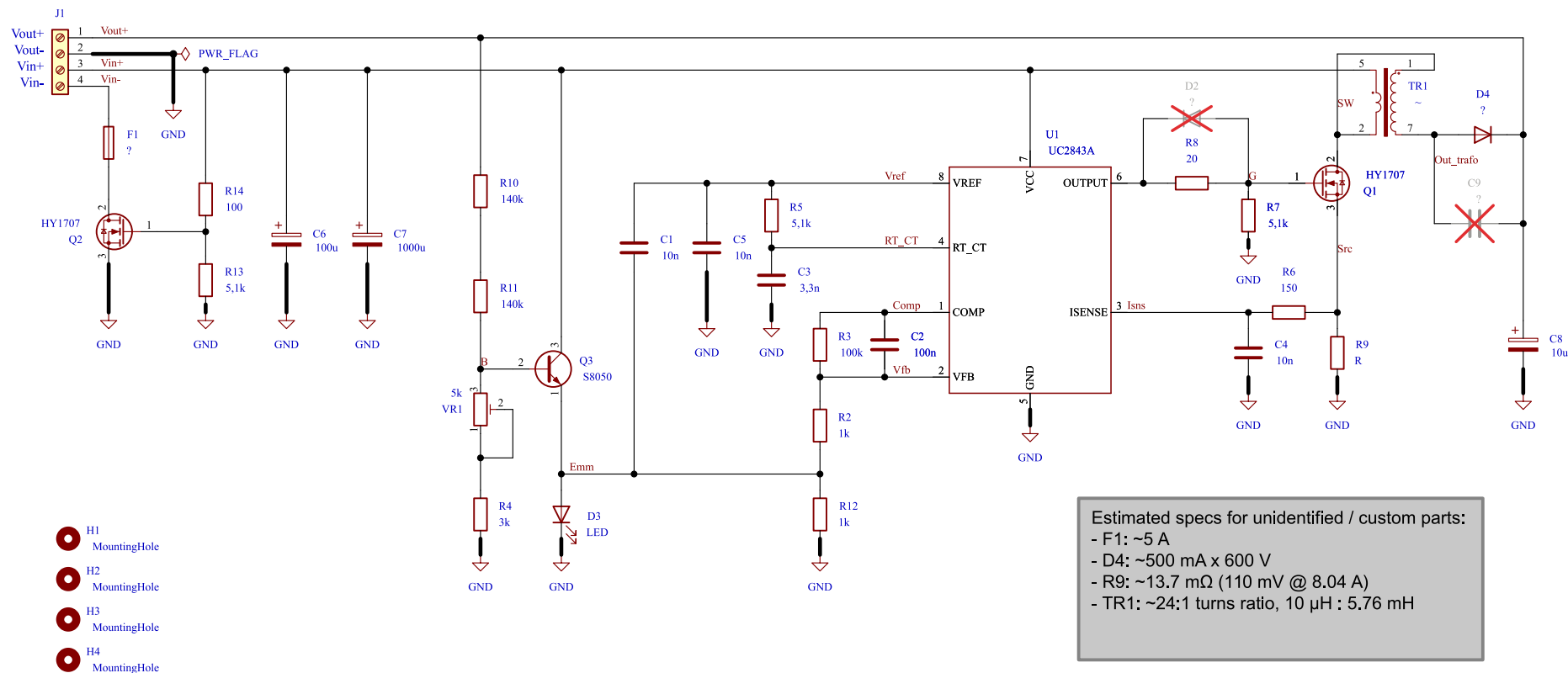
# [2] Block Diagram

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	4fc064d
	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: CHECKED	Git Hash: 4fc064d
		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 - 2025-12-19**

First issue

Schematic capture complete, except for parts:

- not populated (D2, C9);
- with unreadable or absent markings (F1, D4, R9, TR1);

	Comments:	Company:	Variant:	Git Hash:
	"Comment 1"	FR	CHECKED	4fc064d
	"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