

Module

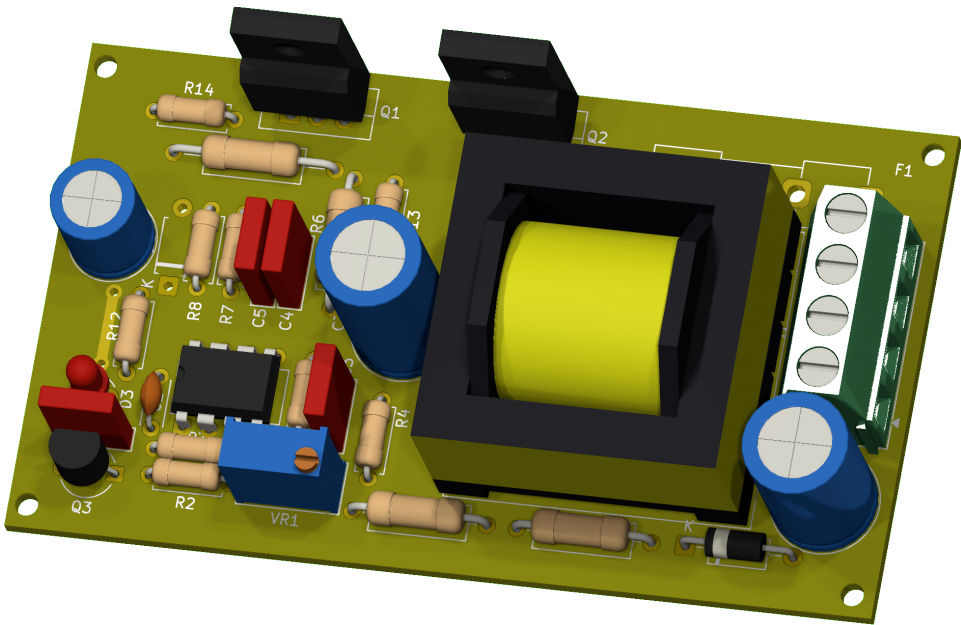
Variant: RELEASED

Rev 1.0.0

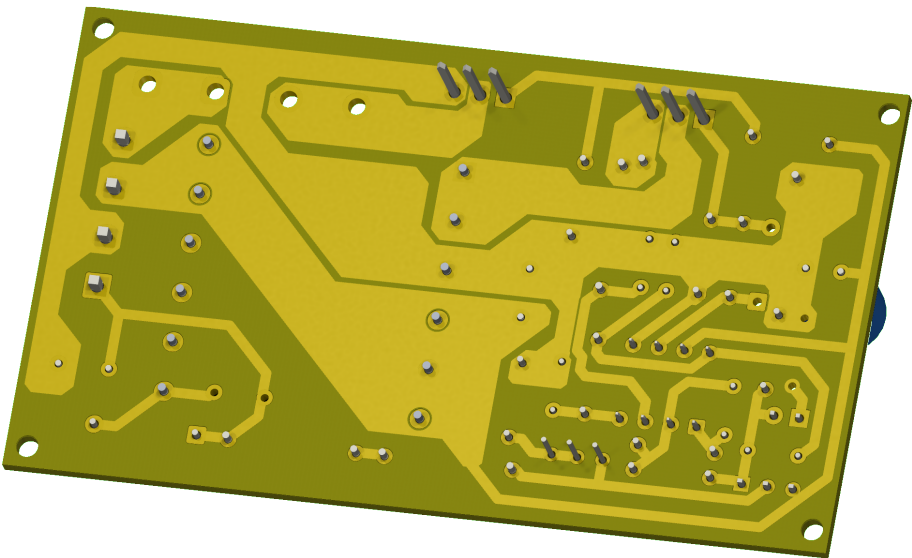
2025-12-20

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TOP VIEW



BOTTOM VIEW



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.

NOTE STYLING CONVENTION

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: RELEASED	Git Hash: 9154884
		Board Name: Module		Project Name: Step-up module 12:450 V	
	Sheet Title:	File Name: StepUp_module_12to450V.kicad_sch	Designer: FR	Date: 2025-12-20	Revision: 1.0.0
	Sheet Path: /		Reviewer: NA	Size: A3	Sheet: 1 of 4

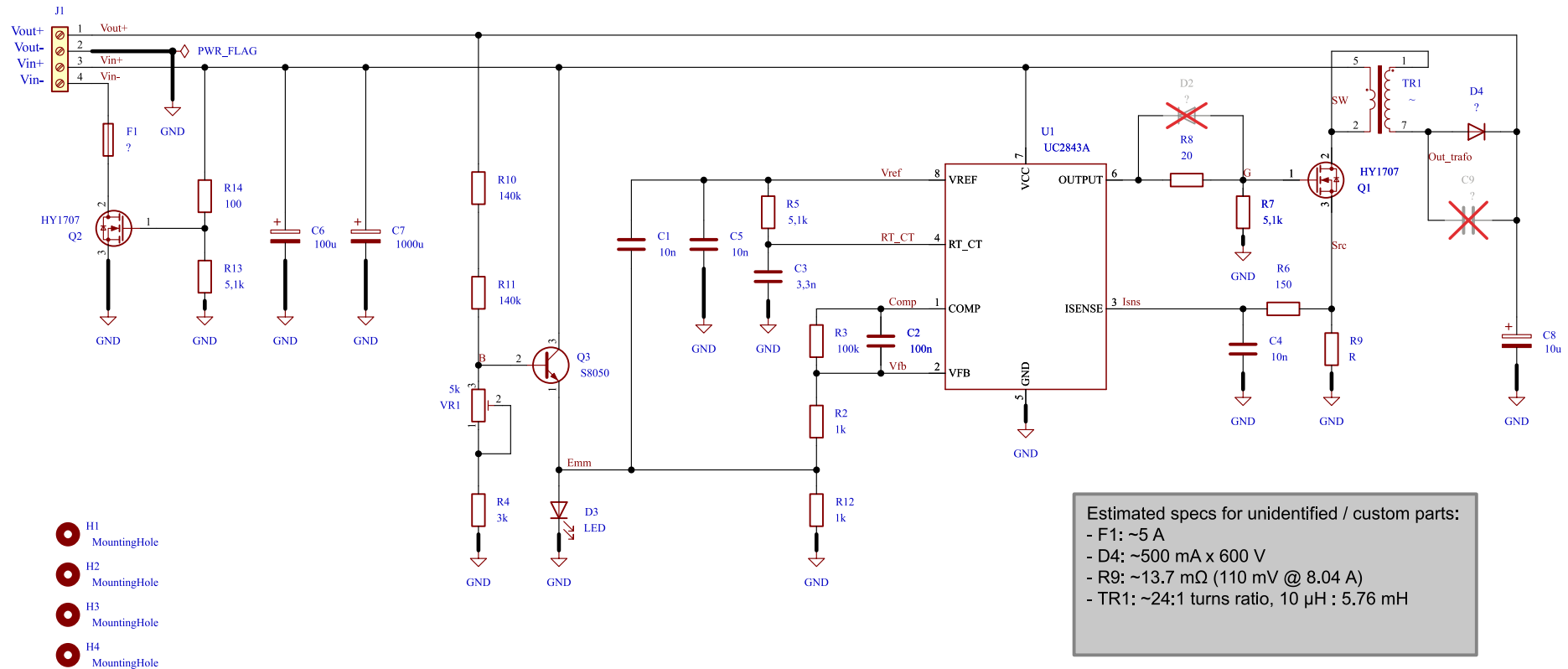
[2] Block Diagram

MODULE INTERFACE:
Vin: 9 V to 24 V according
to AliExpress product page
Vout: 200 V to 450 V,
adjustable through VR1



	Comments: AliExpress module example (link)		Company: FR		Variant: RELEASED		Git Hash: 9154884	
			Board Name: Module			Project Name: Step-up module 12:450 V		
	Sheet Title: Block Diagram		File Name: Block Diagram.kicad_sch		Designer: FR		Date: 2025-12-20	
	Revision: 1.0.0							
Sheet Path: /Block Diagram/		Reviewer: NA			Size: A4		Sheet: 2 of 4	

[3] Schematic



Comments:

Company:

Variant:

Git Hash:

FR

RELEASED

9154884

Board Name:

Project Name:

Module

Step-up module 12:450 V

Sheet Title:

File Name:

Designer:

Date:

Revision:

Schematic

Schematic.kicad_sch

FR

2025-12-20

1.0.0

Sheet Path:

Reviewer:

Size:

Sheet:

/Block Diagram/Schematic/

NA

A4

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[4] Revision History

Version 1.0.0 - 2025-12-20

	Comments:	Company: FR		Variant: RELEASED	Git Hash: 9154884	
		Board Name: Module		Project Name: Step-up module 12:450 V		
	Sheet Title: Revision History	File Name: Revision History.kicad_sch	Designer: FR	Date: 2025-12-20	Revision: 1.0.0	
	Sheet Path: /Revision History/		Reviewer: NA	Size: A4	Sheet: 4 of 4	