

Module

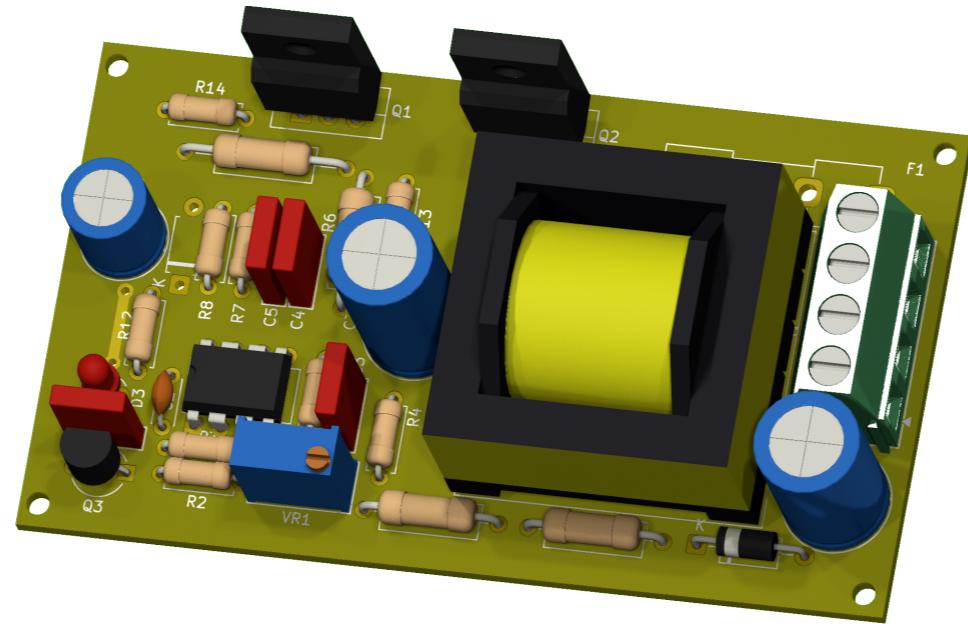
Variant: CHECKED

Rev 1.0.1+ (Unreleased)

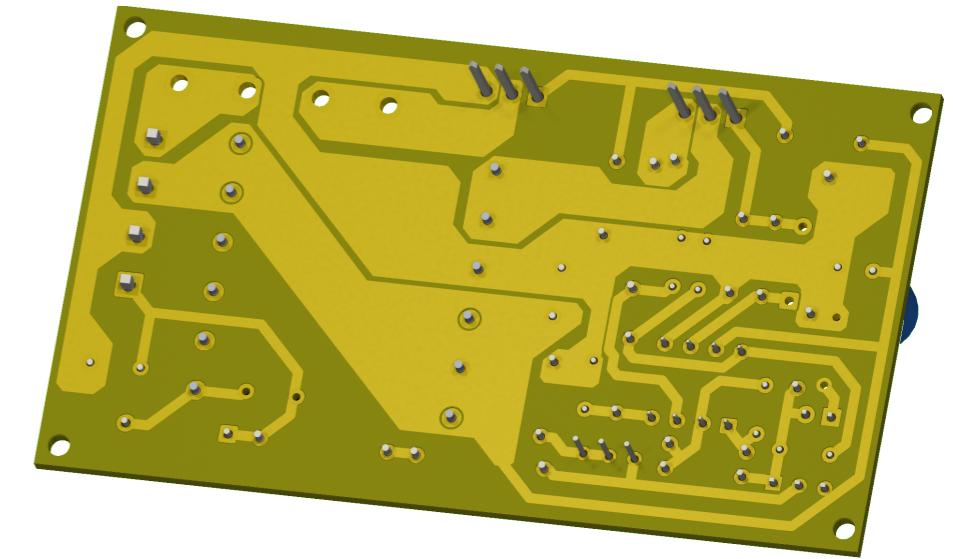
2025-12-21

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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.

Date: 21-Dec-2025

### 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.

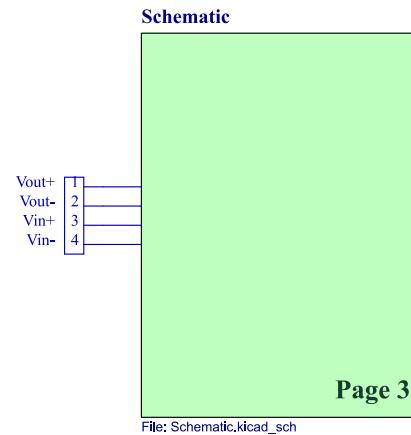
DESIGN NOTE:  
Example text for critical design notes.

LAYOUT NOTE:  
Example text for critical layout guidelines.

	Comments:	Company:	Variant:	Git Hash:
	FR	Module	CHECKED	25e1572
Sheet Title:	Board Name:	Project Name:	Step-up module 12:450 V	
	Module	Step-up module 12:450 V		
Sheet Path:	File Name:	Designer:	Date:	Revision:
	/	FR	2025-12-20	1.0.1+ (Unreleased)
Reviewer:	Size:	Sheet:		
	A3	1 of 4		

## [2] Block Diagram

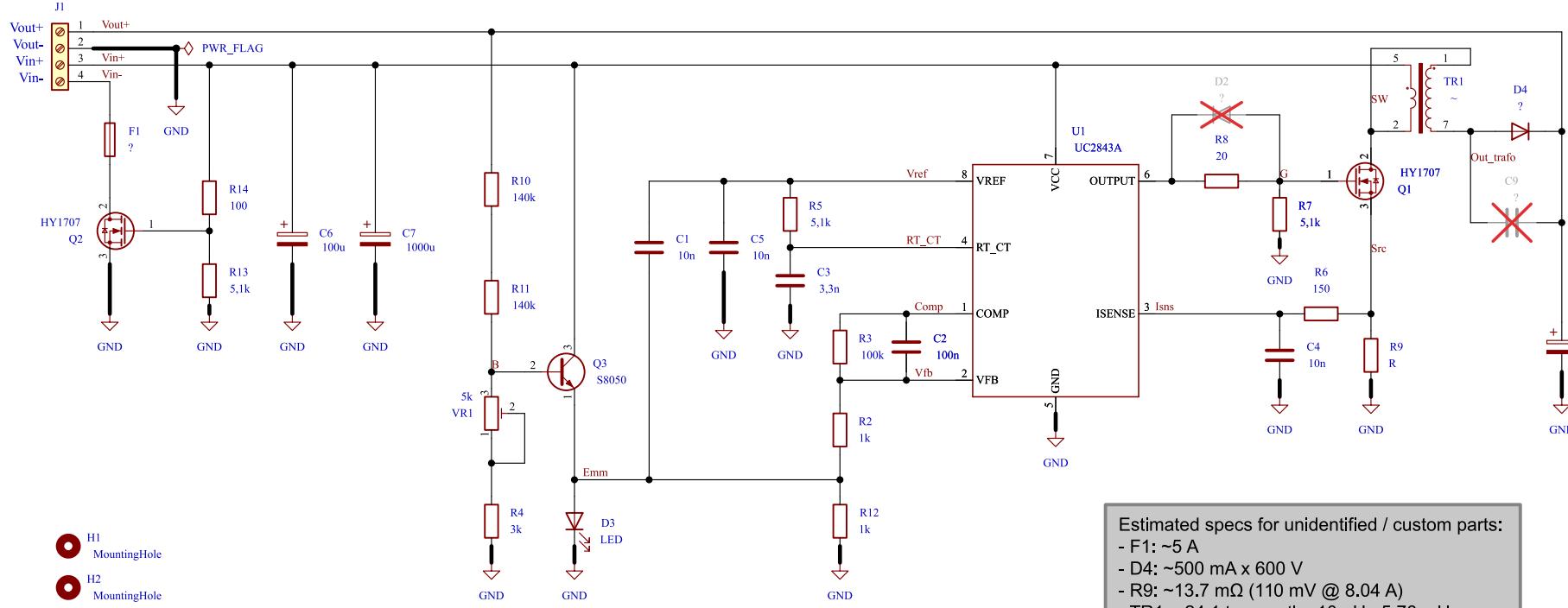
**MODULE INTERFACE:**  
Vin: 9 V to 24 V according  
to AliExpress product page  
Vout: 200 V to 450 V,  
adjustable through VR1



Page 3

	Comments: AliExpress module example ( <a href="#">link</a> )	Company: FR	Variant: CHECKED	Git Hash: 25e1572
	Board Name: <b>Module</b>	Project Name: <b>Step-up module 12:450 V</b>		
	Sheet Title: Block Diagram	File Name: Block Diagram.kicad_sch	Designer: FR	Date: 2025-12-20    Revision: 1.0.1+ (Unreleased)
	Sheet Path: <a href="#">/Block Diagram/</a>		Reviewer: NA	Size: <b>A4</b> Sheet: <b>2</b> of <b>4</b>

### [3] Schematic



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

	Comments: FR	Company: FR	Variant: CHECKED	Git Hash: 25e1572
	Board Name: <b>Module</b>	Project Name: <b>Step-up module 12:450 V</b>		
	Sheet Title: Schematic	File Name: Schematic.kicad_sch	Designer: FR	Date: 2025-12-20
	Sheet Path: /Block Diagram/Schematic/		Reviewer: NA	Revision: 1.0.1+ (Unreleased)

## [4] Revision History

A

### **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).

CI failed on release - do not use.

### **Version 1.0.1 - 2025-12-21**

B

C

D

A

B

C

D

	Comments:	Company: <b>FR</b>	Variant: CHECKED	Git Hash: 25e1572
	Board Name: <b>Module</b>			Project Name: <b>Step-up module 12:450 V</b>
	Sheet Title: Revision History	File Name: Revision History.kicad_sch	Designer: FR	Date: 2025-12-20
	Sheet Path: <a href="#">/Revision History/</a>		Reviewer: NA	Revision: 1.0.1+ (Unreleased)
			Size: <b>A4</b>	Sheet: <b>4 of 4</b>