

A
1 2 3 4 5 6 7 8

Module

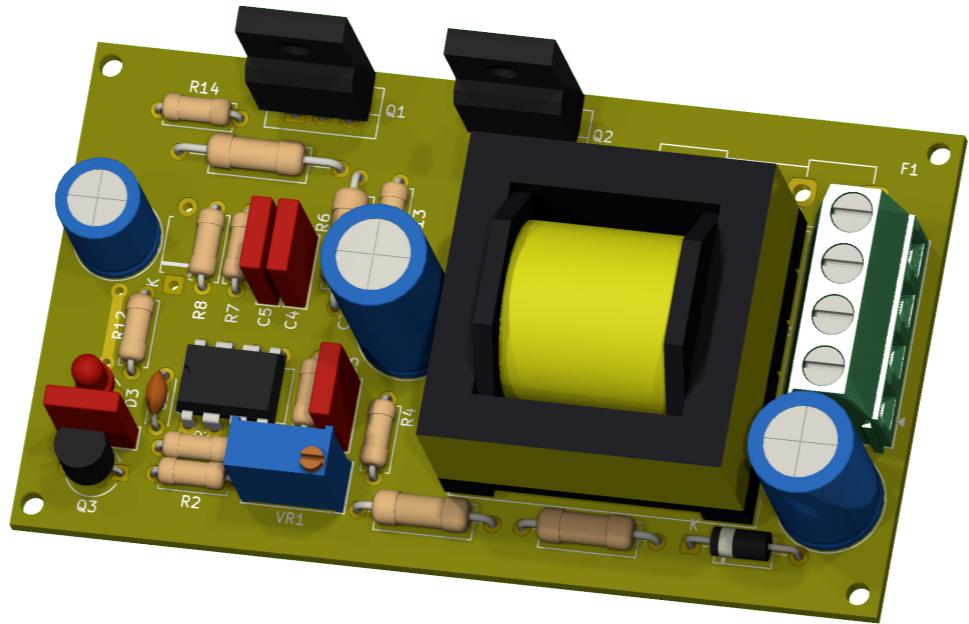
Variant: RELEASED

A
Rev 1.0.1

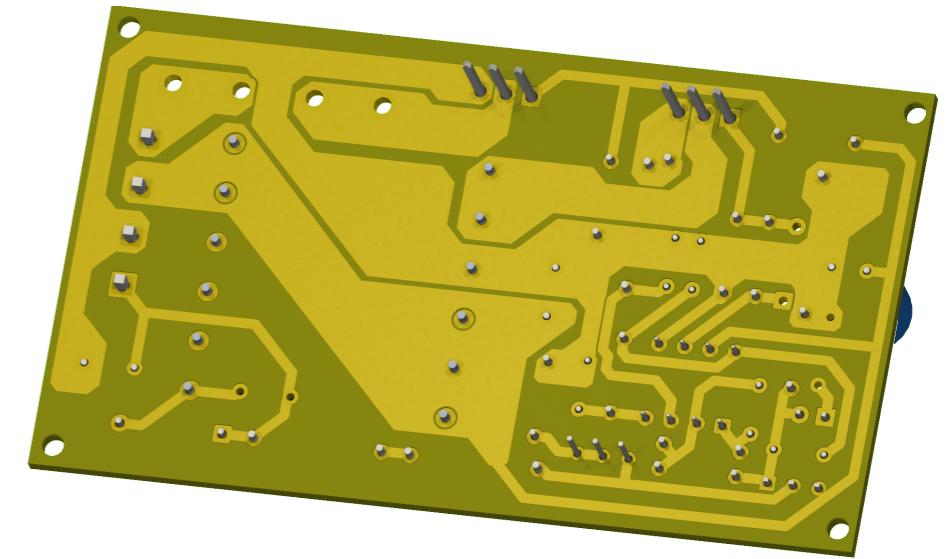
B
2025-12-21

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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.

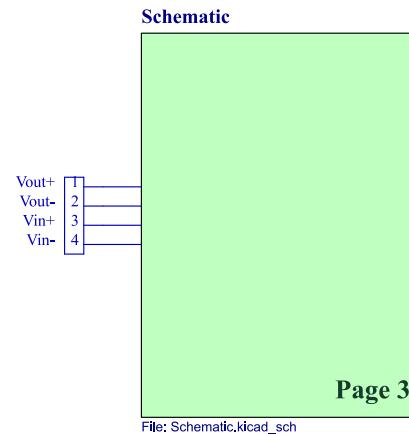
DESIGN NOTE:
Example text for critical design notes.

LAYOUT NOTE:
Example text for critical layout guidelines.

	Comments: FR	Company:		Variant: RELEASED	Git Hash: 9cbd478
		Module			
	Sheet Title: StepUp_module_12to450V.kicad_sch	File Name: StepUp_module_12to450V.kicad_sch	Designer: FR	Date: 2025-12-20	Revision: 1.0.1
	Sheet Path: /	Reviewer: NA	Size: A3	Sheet: 1 of 4	

[2] Block Diagram

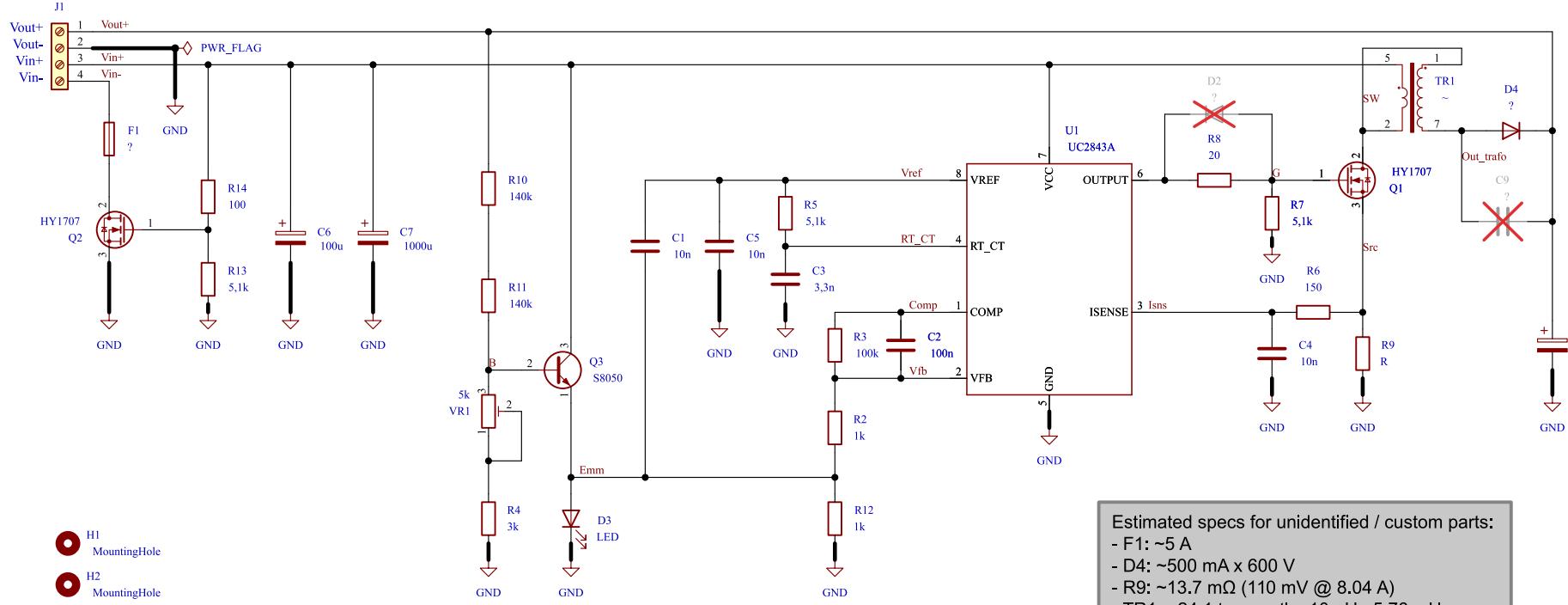
MODULE INTERFACE:
Vin: 9 V to 24 V according
to AliExpress product page
Vout: 200 V to 450 V,
adjustable through VR1



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	Comments: AliExpress module example (link)	Company: FR	Variant: RELEASED	Git Hash: 9cbd478
	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: 1.0.1
	Sheet Path: /Block Diagram/		Reviewer: NA	Size: A4 Sheet: 2 of 4

[3] Schematic



		Comments: FR	Company: FR	Variant: RELEASED	Git Hash: 9cbd478
		Board Name: Module		Project Name: Step-up module 12:450 V	
		Sheet Title: Schematic	File Name: Schematic.kicad_sch	Designer: FR	Date: 2025-12-20 Revision: 1.0.1
		Sheet Path: /Block Diagram/Schematic/		Reviewer: NA	Size: A4 Sheet: 3 of 4

[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: FR	Variant: RELEASED	Git Hash: 9cbd478
	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
	Sheet Path: /Revision History/		Reviewer: NA	Revision: 1.0.1 Size: A4 Sheet: 4 of 4