

A 1 2 3 4 5 6 7 8

# Module

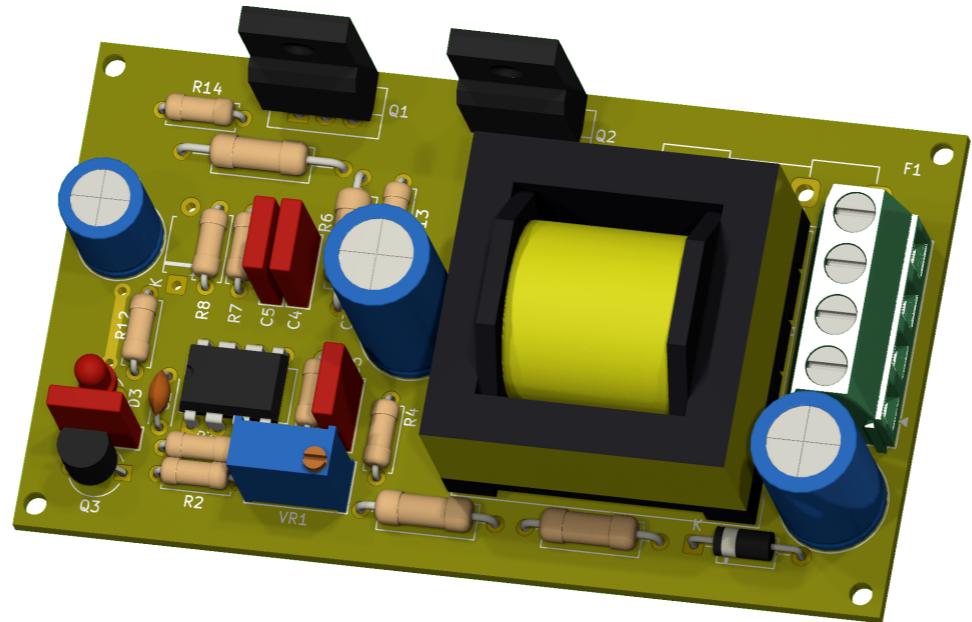
## Variant: CHECKED

# Rev + (Unreleased)

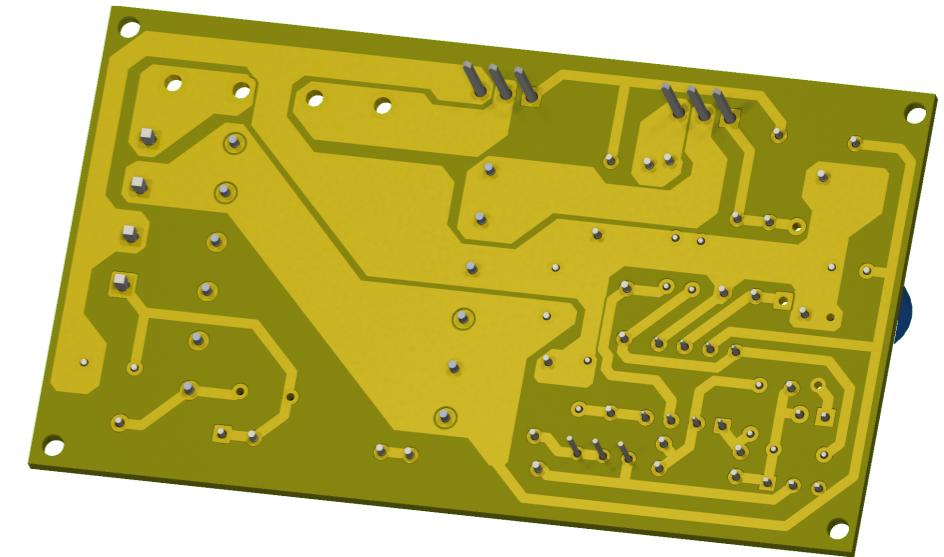
2025-12-21

Page	Index
1	Cover Page
2	Block Diagram
3	Schematic
4	Revision History
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....

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.

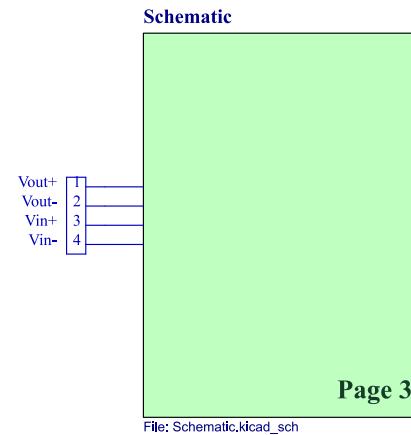
DESIGN NOTE:  
Example text for critical design notes.

LAYOUT NOTE:  
Example text for critical layout guidelines.

	Comments:	Company:	Variant:	Git Hash:
	FR		CHECKED	25e1572
Sheet Title:	Board Name:	Project Name:		
	Module	Step-up module 12:450 V		
Sheet Path:	File Name:	Designer:	Date:	Revision:
	StepUp_module_12to450V.kicad_sch	FR	2025-12-20	+ (Unreleased)
Reviewer:	Size:	Sheet:		
	NA	A3	1	of 4

# [2] Block Diagram

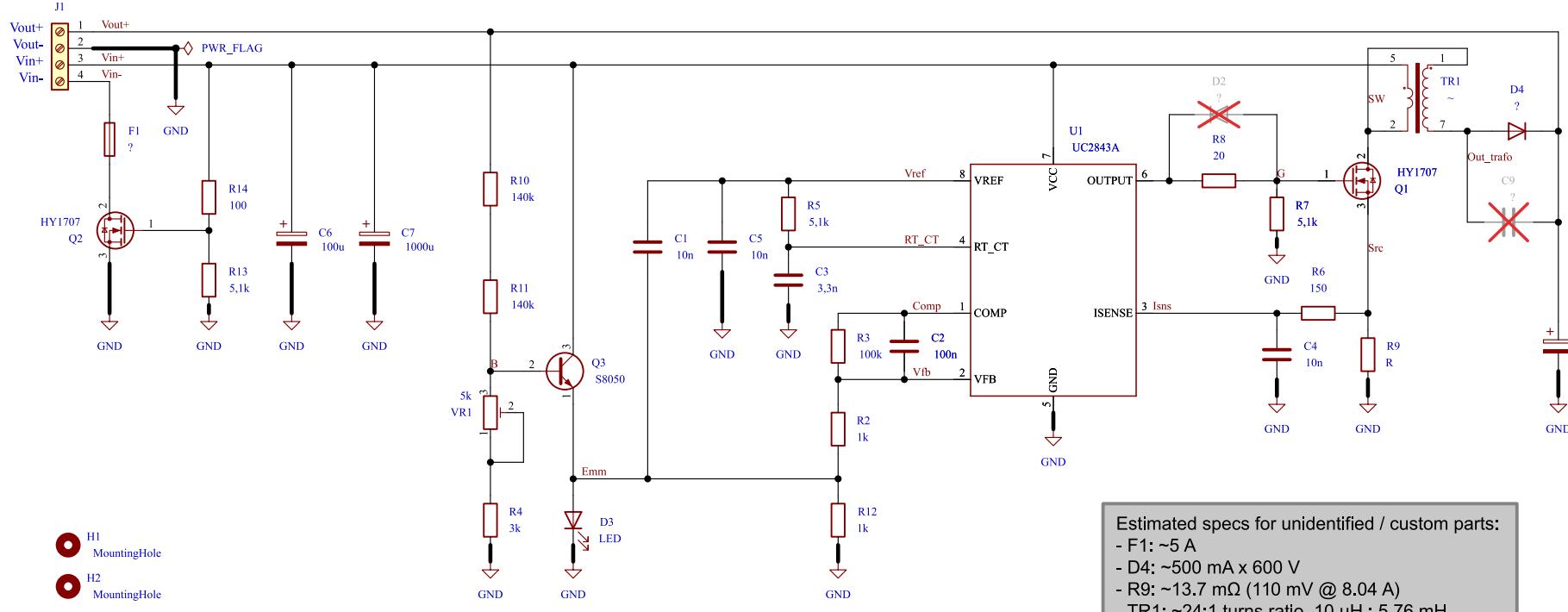
**MODULE INTERFACE:**  
 Vin: 9 V to 24 V according  
 to AliExpress product page  
 Vout: 200 V to 450 V,  
 adjustable through VR1



Page 3

	Comments: AliExpress module example ( <a href="#">link</a> )	Company: <b>FR</b>	Variant: <b>CHECKED</b>	Git Hash: <b>25e1572</b>
	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
	Sheet Path: <a href="#">/Block Diagram/</a>		Reviewer: NA	Revision: + (Unreleased)
			Size: <b>A4</b>	Sheet: <b>2 of 4</b>

### [3] Schematic



		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	Size: <b>A4</b>	Sheet: <b>3</b> of <b>4</b>

## [4] Revision History

	1	2	3	4	5	6																					
A	<b>Version 1.0.0 - 2025-12-19</b> <hr/> <p>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.</p>					A																					
B	<b>Version 1.0.1 not found.</b> Version 1.0.1 not found.					B																					
C						C																					
D		<table border="1"><tr><td></td><td>Comments:</td><td>Company: <b>FR</b></td><td>Variant: CHECKED</td><td>Git Hash: 25e1572</td></tr><tr><td></td><td></td><td>Board Name: <b>Module</b></td><td>Project Name: <b>Step-up module 12:450 V</b></td><td></td></tr><tr><td></td><td>Sheet Title: Revision History</td><td>File Name: Revision History.kicad_sch</td><td>Designer: FR</td><td>Date: 2025-12-20</td><td>Revision: + (Unreleased)</td></tr><tr><td></td><td>Sheet Path: /Revision History/</td><td></td><td>Reviewer: NA</td><td>Size: <b>A4</b></td><td>Sheet: <b>4 of 4</b></td></tr></table>		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	Revision: + (Unreleased)		Sheet Path: /Revision History/		Reviewer: NA	Size: <b>A4</b>	Sheet: <b>4 of 4</b>			D
	Comments:	Company: <b>FR</b>	Variant: CHECKED	Git Hash: 25e1572																							
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