

Module

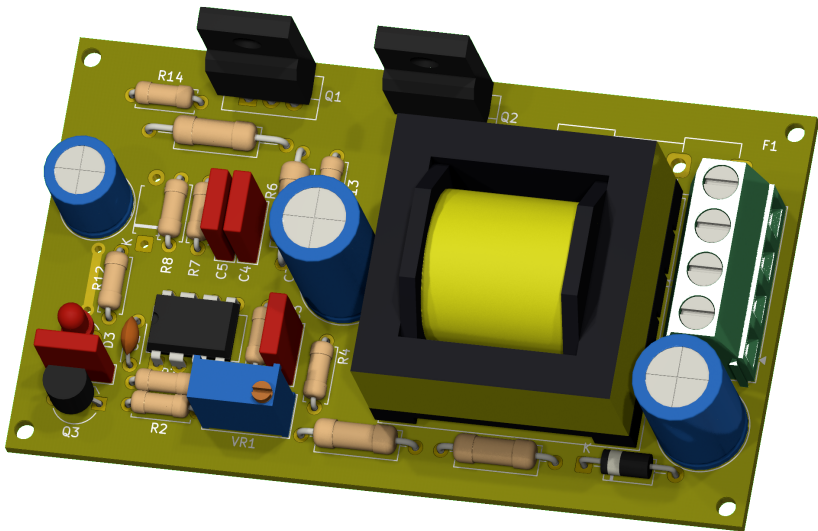
Variant: CHECKED

Rev + (Unreleased)

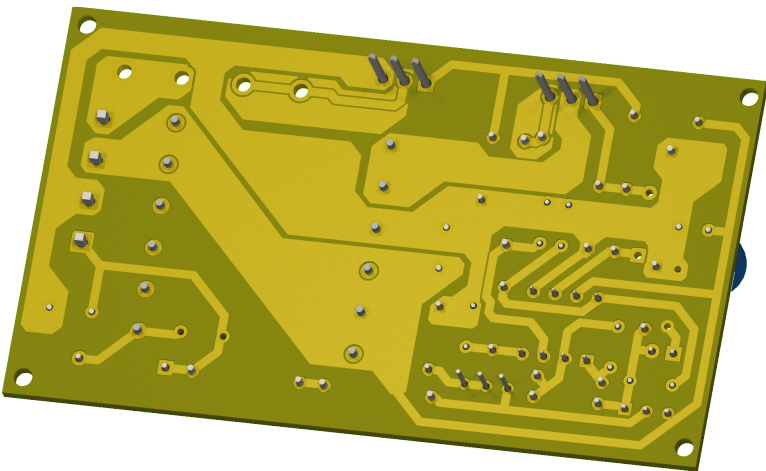
2025-12-17

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

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:

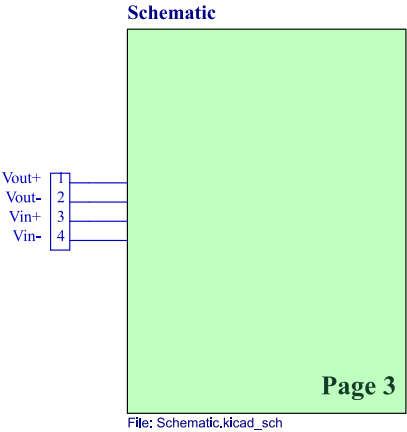
Example text for critical layout guidelines.

Date: 17-Dec-2025

	Comments:	Company: FR	Variant: CHECKED	Git Hash: 917e012
	Sheet Title:	Board Name: Module	Project Name: Step-up module 12:450 V	
	Sheet Path: /	File Name: StepUp_module_12to450V.kicad_sch	Designer: FR	Date: 2025-01-12
		Reviewer: NA	Size: A3	Revision: + (Unreleased)
				Sheet: 1 of 4

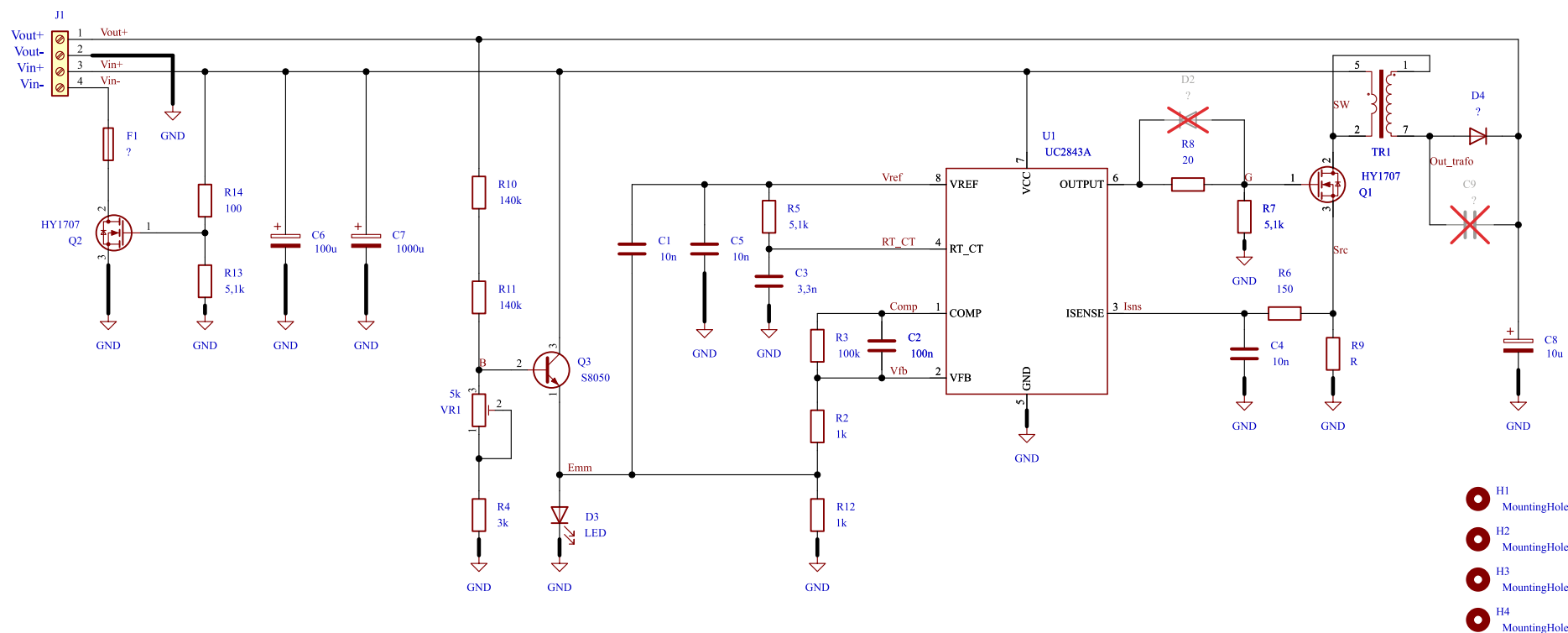
# [2] Block Diagram

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	917e012
	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:

917e012

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

	Comments:	Company:		Variant:	Git Hash:
	"Comment 1"	<b>FR</b>		CHECKED	917e012
	"Comment 2"	Board Name:		Project Name:	
	"Comment 3"	<b>Module</b>		<b>Step-up module 12:450 V</b>	
	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	