

# Random

# Random

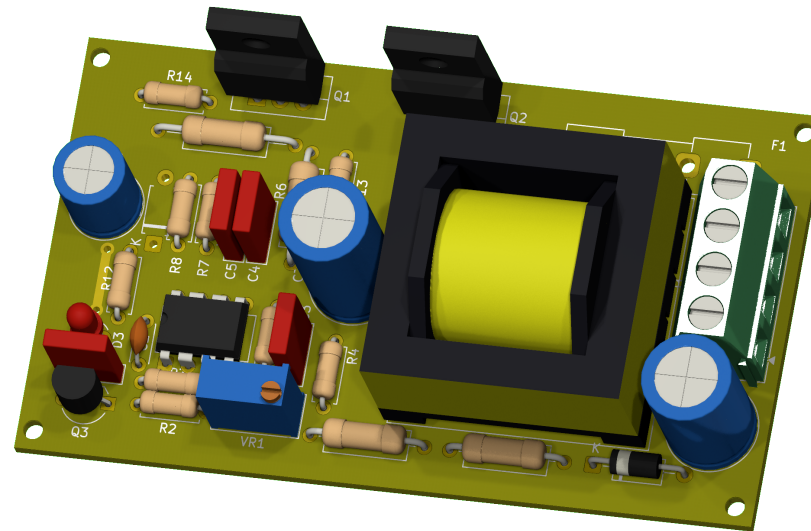
## Variant: CHECKED

# Rev + (Unreleased)

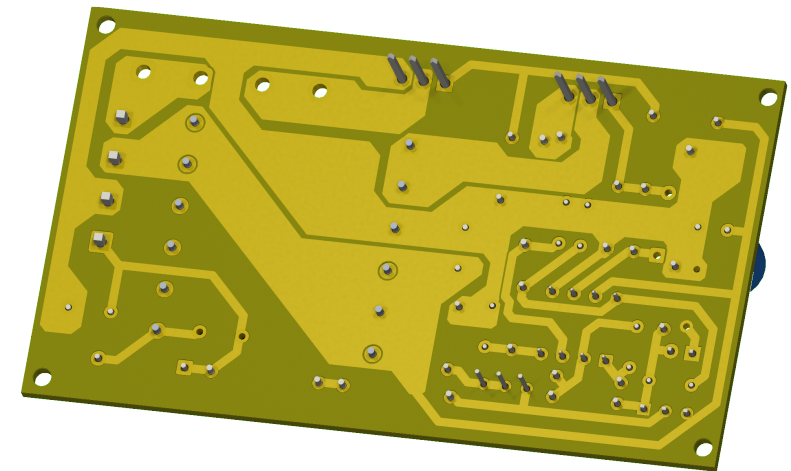
**2025-12-19**

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## 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: 19-Dec-2025

	Comments:	Company:		Variant:	Git Hash:
		FR		CHECKED	9a2b306
		Board Name:		Project Name:	
		Module		Step-up module 12:450 V	
Sheet Title:	File Name:	Designer:	Date:	Revision:	
	StepUp_module_12to450V.kicad_sch	FR	2025-01-12	+ (Unreleased)	
Sheet Path:		Reviewer:	Size:	Sheet:	
/		NA	A3	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	9a2b306
	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

Board Name: Module

Variant: CHECKED

Git Hash: 9a2b306

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

	Comments:	Company: <b>FR</b>		Variant: CHECKED	Git Hash: 9a2b306	
		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: 2025-01-12	Revision: + (Unreleased)	
	Sheet Path: /Block Diagram/Schematic/		Reviewer: NA	Size: <b>A4</b>	Sheet: <b>3</b> of <b>4</b>	

## [4] Revision History

**Version 1.0.0 - 2025-12-19**

First issue

- Schematic
- PCB layout

**Version 1.0.1 - 2025-12-18**

EMPTY1

- Nada
- Nic

**Version 1.0.2 - 2025-12-17**

EMPTY2

**Version 1.1.0 - 2025-12-16**

EMPTY3

	Comments:	Company:	Variant:	Git Hash:
	"Comment 1"	FR	CHECKED	9a2b306
	"Comment 2"	Board Name:		Project Name:
	"Comment 3"	Module		Step-up module 12:450 V
	"Comment 4"			
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