Module

Rev + (Unreleased)

Variant: PRELIMINARY

2025-12-13

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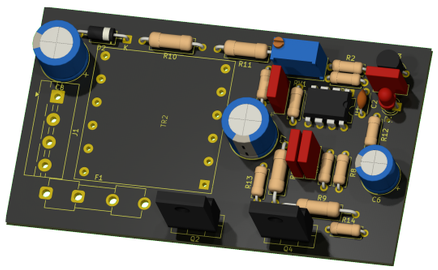
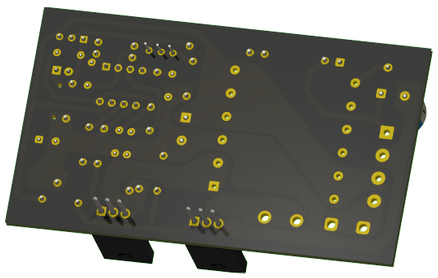
TOP VIEW



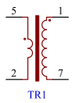
BOTTOM VIEW



NOTES

Comment

Not fitted components are marked as ✗



DRAFT - Very early stage of schematic, ignore details.

PRELIMINARY - Close to final schematic.

CHECKED - There shouldn't be any mistakes. Contact the engineer if you find any.

RELEASED - A board with this schematic has been sent to production.

Date: 13-Dec-2025

DESIGN CONSIDERATIONS

DESIGN NOTE: Example text for informational design notes.

DESIGN NOTE: Example text for debug notes.

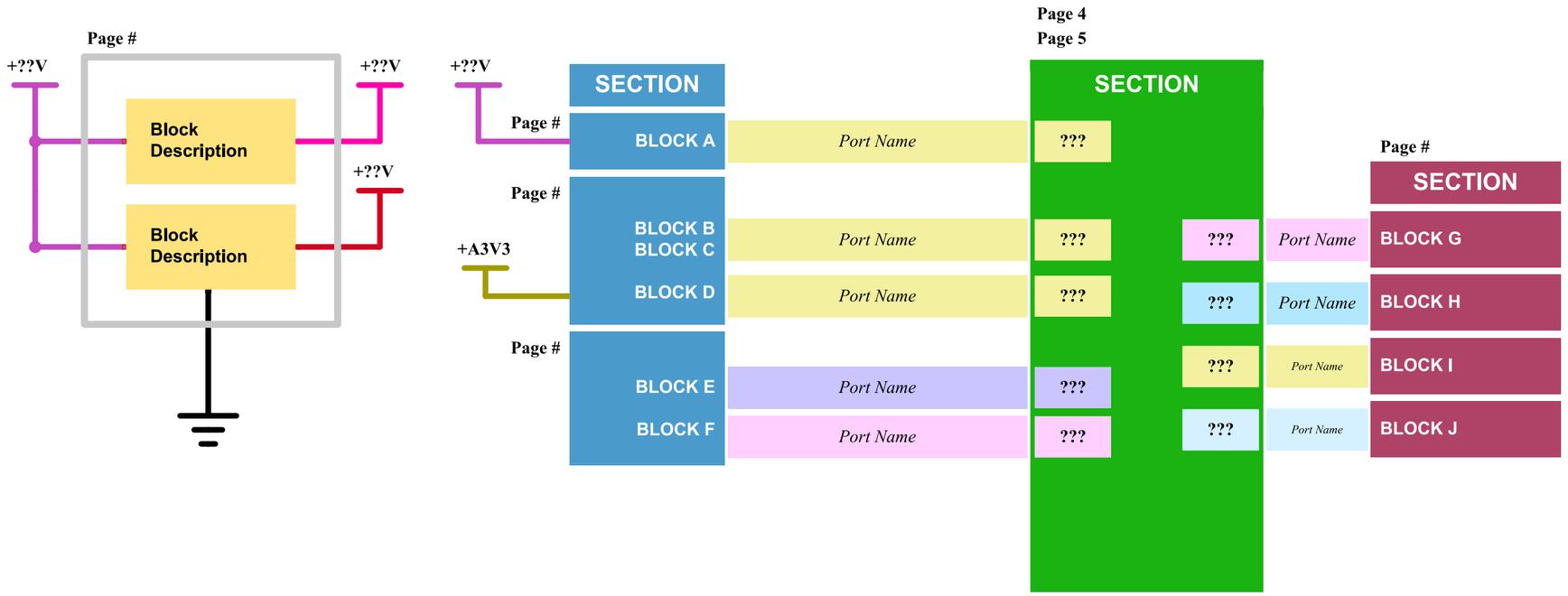
DESIGN NOTE: Example text for cautionary design notes.

DESIGN NOTE: Example text for critical design notes.

LAYOUT NOTE: Example text for critical layout guidelines.

Comments:	Company: FR		Variant: PRELIMINARY	Git Hash: 1fe9677
	Board Name: Module		Project Name: Alixp Step up module 12 to 450 V	
Sheet Title:	File Name: StepUp_module_12to450V.kicad_sch	Designer: FR	Date: 2025-01-12	Revision: + (Unreleased)
Sheet Path: /		Reviewer:	Size: A3	Sheet: 1 of 7

[2] Block Diagram

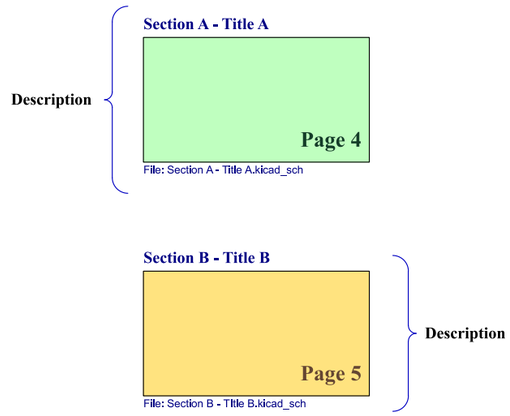


Target specifications:

Input voltage:	?? - ?? V
Spec 2	??
Spec 3	??
Spec 4	??

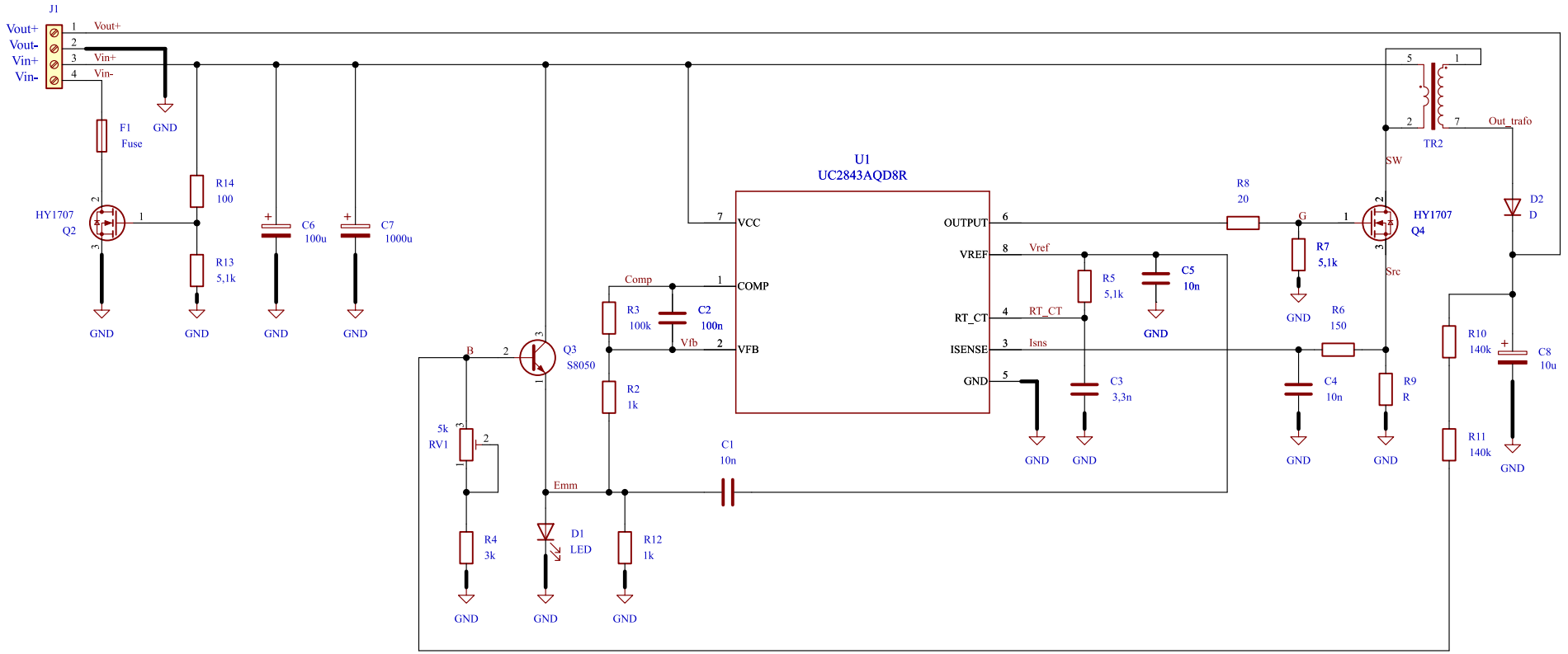
Comments:	Company: **FR**		Variant: PRELIMINARY	Git Hash: 1fe9677
	Board Name: **Module**		Project Name: **Alixp Step up module 12 to 450 V**	
Sheet Title: Block Diagram	File Name: Block Diagram.kicad_sch	Designer: FR	Date: 2025-01-12	Revision: + (Unreleased)
Sheet Path: /Block Diagram/		Reviewer:	Size: **A3**	Sheet: **2** of **7**

[3] Project Architecture



Comments:	Company: FR		Variant: PRELIMINARY	Git Hash: 1fe9677	
	Board Name: **Module**		Project Name: **Alixp Step up module 12 to 450 V**		
Sheet Title: Project Architecture	File Name: Project Architecture.kicad_sch	Designer: FR	Date: 2025-01-12	Revision: + (Unreleased)	
Sheet Path: /Project Architecture/		Reviewer:	Size: **A3**	Sheet: **3** of **7**	

[4] Sheet Title A



Comments: AliExpress module	Company: FR		Variant: PRELIMINARY	Git Hash: 1fe9677
	Board Name: **Module**		Project Name: **Alixp Step up module 12 to 450 V**	
Sheet Title: Sheet Title A	File Name: Section A - Title A.kicad_sch	Designer: FR	Date: 2025-01-12	Revision: + (Unreleased)
Sheet Path: /Project Architecture/Section A - Title A/		Reviewer:	Size: **A4**	Sheet: **4** of **7**

[5] Sheet Title B

DESIGN NOTE:
blabla

DESIGN NOTE:
blabla

LAYOUT NOTE:
blabla

Block Description

Block Description

Block Description

Block Description

Block Description

Block Description

Block Description

Block Description

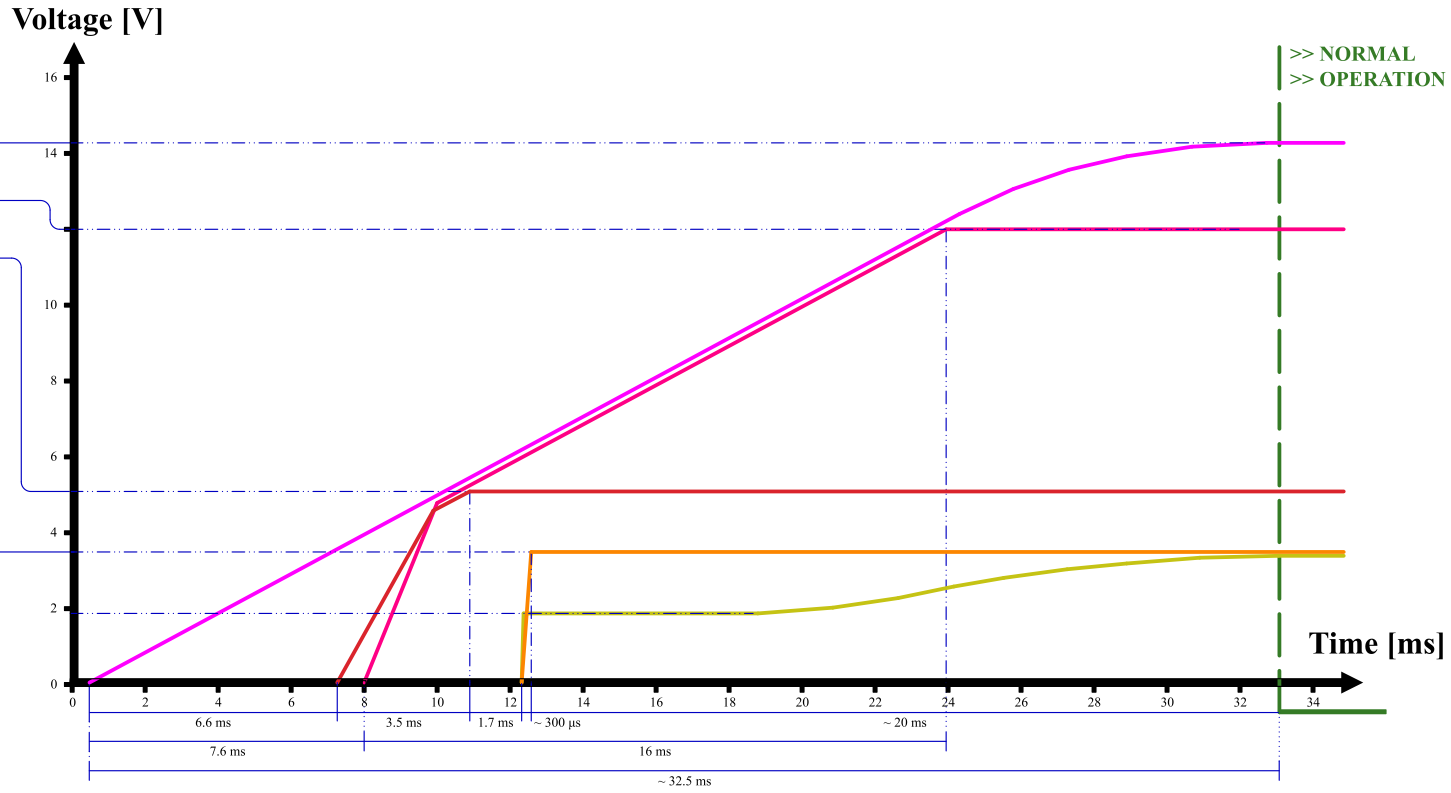
Block Description

Block Description

Comments: **References:** Flexible I/O worked examples Flexible I/O source configuration	Company: **FR**		Variant: PRELIMINARY	Git Hash: 1fe9677
	Board Name: **Module**		Project Name: **Alixp Step up module 12 to 450 V**	
Sheet Title: Sheet Title B	File Name: Section B - TItle B.kicad_sch	Designer: FR	Date: 2025-01-12	Revision: + (Unreleased)
Sheet Path: /Project Architecture/Section B - Title B/		Reviewer:	Size: **A3**	Sheet: **5** of **7**

[6] Power - Sequencing

NAME	SOURCE	LEVEL
+V??	??	? - ? ± ??%
+V??	??	? - ? ± ??%
+V??	??	? - ? ± ??%
+V??	??	? - ? ± ??%
+V??	??	? - ? ± ??%



Comments:	Company: FR		Variant: PRELIMINARY	Git Hash: 1fe9677
	Board Name: **Module**		Project Name: **Alixp Step up module 12 to 450 V**	
Sheet Title: Power - Sequencing	File Name: Power - Sequencing.kicad_sch	Designer: FR	Date: 2025-01-12	Revision: + (Unreleased)
Sheet Path: /Power - Sequencing/		Reviewer:	Size: **A4**	Sheet: **6** of **7**

[7] Revision History

Comments:	Company: FR		Variant: PRELIMINARY	Git Hash: 1fe9677	
	Board Name: **Module**		Project Name: **Alixp Step up module 12 to 450 V**		
Sheet Title: Revision History	File Name: Revision History.kicad_sch	Designer: FR	Date: 2025-01-12	Revision: + (Unreleased)	
	Sheet Path: /Revision History/	Reviewer:	Size: **A4**	Sheet: **7** of **7**	