# Module

# Rev + (Unreleased)

## Variant: PRELIMINARY

## 2025-12-14


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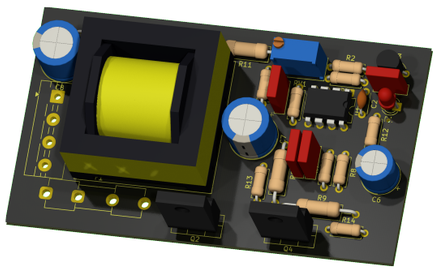
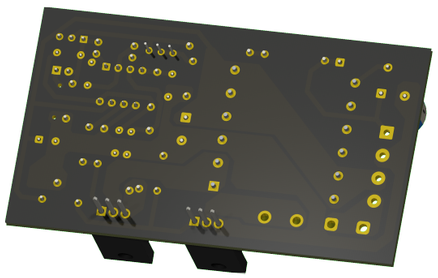
## TOP VIEW



## BOTTOM VIEW



## NOTES

Comment

Not fitted components are marked as ✗

**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: 14-Dec-2025**

## DESIGN CONSIDERATIONS

DESIGN NOTE: Example text for informational design notes.

DESIGN NOTE: Example text for debug notes.

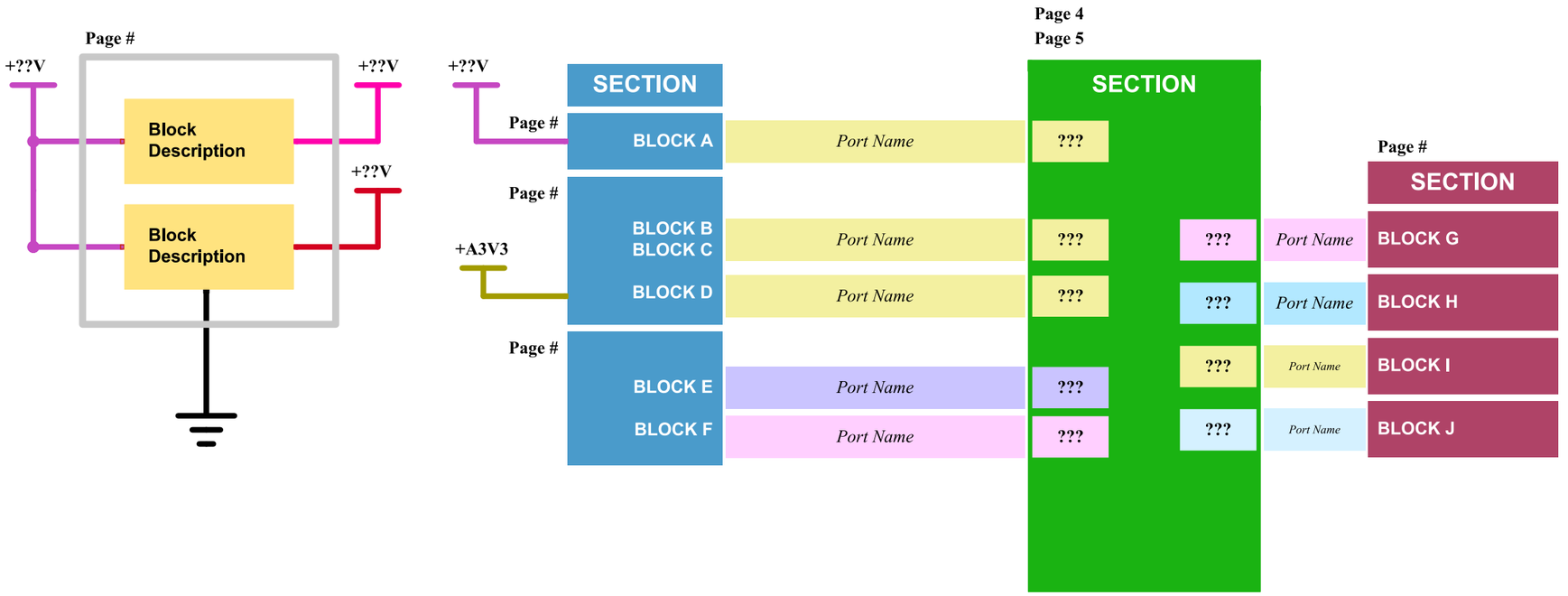
DESIGN NOTE: Example text for cautionary design notes.

DESIGN NOTE: Example text for critical design notes.

LAYOUT NOTE: Example text for critical layout guidelines.

| | | | | |
|---|---|---|---|---|
| Comments: | Company: FR | | Variant: PRELIMINARY | Git Hash: 0ceba30 |
| | 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 6 |

# [2] Block Diagram

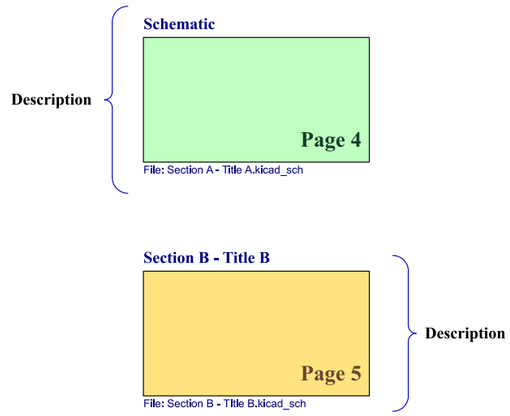



**Target specifications:**

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

| | | | | |
|---|---|---|---|---|
| Comments: | Company: **FR** | | Variant: PRELIMINARY | Git Hash: 0ceba30 |
| | 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 **6** |

# [3] Project Architecture

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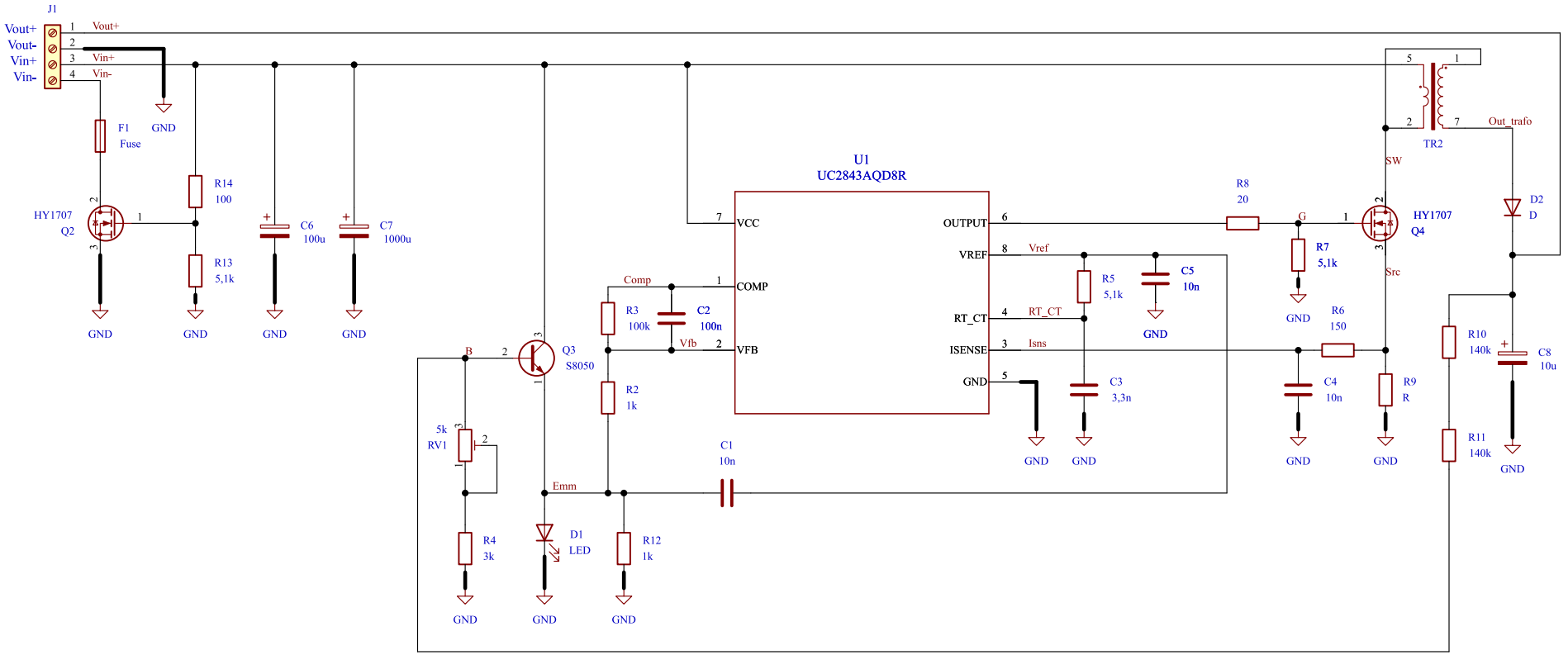
|---|---|---|---|---|---|
| | Comments: | Company: FR | | Variant: PRELIMINARY | Git Hash: 0ceba30 |
| | | Board Name: **Module** | | Project Name: **Alixp Step up module 12 to 450 V** | |
| | Sheet Title: Project Architecture | File Name: Project Architecture.kicad_sch | Designer: FR | Date: 2025-01-12 | Revision: + (Unreleased) |
| | Sheet Path: /Project Architecture/ | | Reviewer: | Size: **A3** | Sheet: **3** of **6** |

# [4] Sheet Title A

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|---|---|---|---|---|
| Comments: AliExpress module | Company: FR | | Variant: PRELIMINARY | Git Hash: 0ceba30 |
| | 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/Schematic/ | | Reviewer: | Size: **A4** | Sheet: **4** of **6** |

# [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:<br>**References:**<br>Flexible I/O worked examples<br>Flexible I/O source configuration | Company:<br>**FR** | | Variant:<br>PRELIMINARY | Git Hash:<br>0ceba30 |
| | Board Name:<br>**Module** | | Project Name:<br>**Alixp Step up module 12 to 450 V** | |
| Sheet Title:<br>Sheet Title B | File Name:<br>Section B - TItle B.kicad_sch | Designer:<br>FR | Date:<br>2025-01-12 | Revision:<br>+ (Unreleased) |
| Sheet Path:<br>/Project Architecture/Section B - Title B/ | | Reviewer: | Size:<br>**A3** | Sheet:<br>**5** of **6** |

# [7] Revision History

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|---|---|---|---|---|---|
| Comments: | Company: FR | | Variant: PRELIMINARY | Git Hash: 0ceba30 | |
| | 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 **6** | |