

A
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

Module

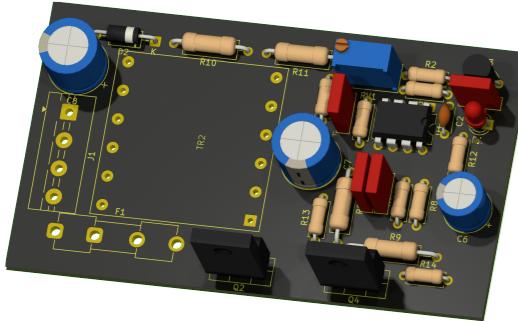
Rev + (Unreleased)

Variant: PRELIMINARY

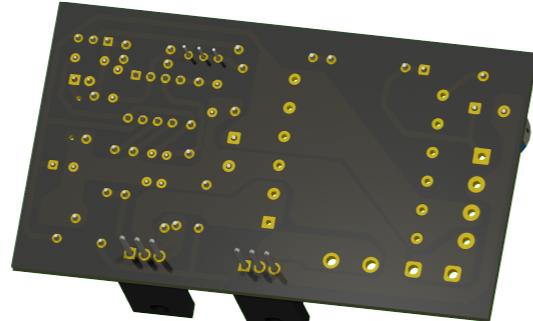
2025-12-13

| Page | Index | Page | Index | Page | Index | Page | Index |
|------|----------------------|------|-------|------|-------|------|-------|
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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: 13-Dec-2025

DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational design notes.

DESIGN NOTE:
Example text for debug notes.

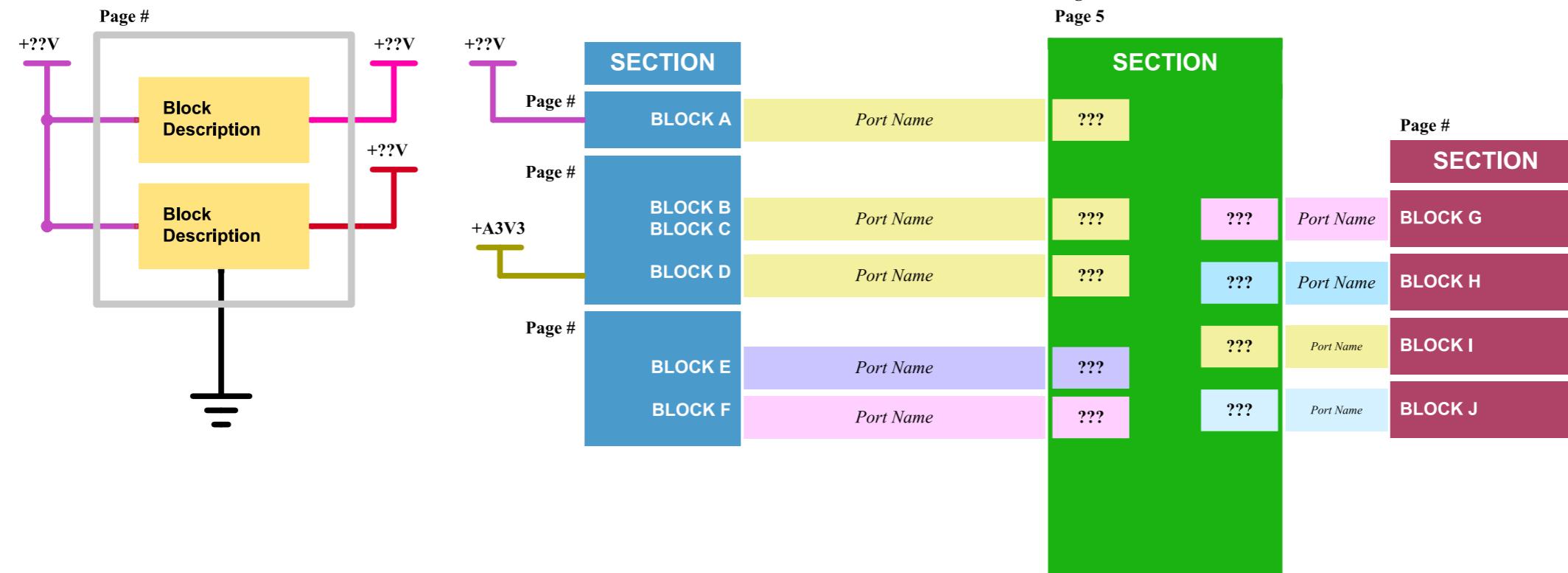
DESIGN NOTE:
Example text for cautionary design notes.

DESIGN NOTE:
Example text for critical design notes.

LAYOUT NOTE:
Example text for critical layout guidelines.

| | | | | |
|--|-----------------------------------------------------------------------|----------------------------------------------------------|--------------------------------|------------------------------------|
| | Comments: | Company: FR | Variant: PRELIMINARY | Git Hash: 76a8903 |
| | 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

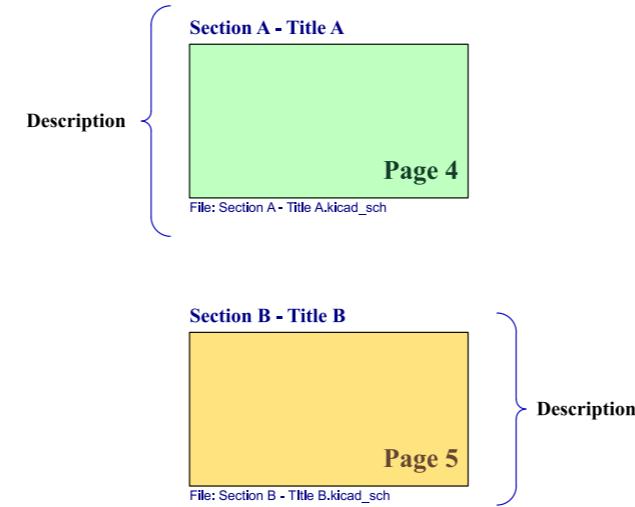


Target specifications:

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

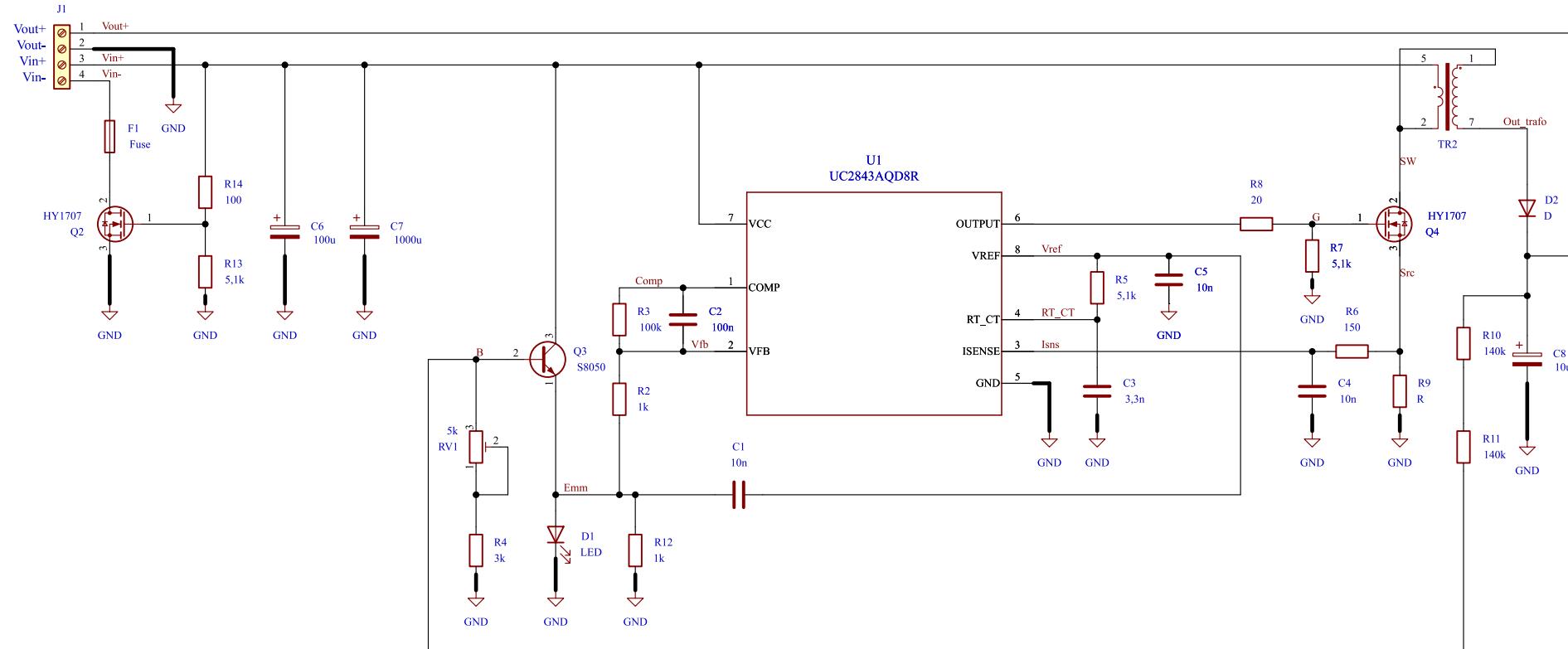
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| | Comments: FR | Company: FR | Variant: PRELIMINARY | Git Hash: 76a8903 |
| | | Board Name: Module | Project Name: Alixp Step up module 12 to 450 V | |
| | Sheet Title: Block Diagram | File Name: Block Diagram.kicad_sch | Designer: FR | Date: 2025-01-12 Revision: + (Unreleased) |
| | Sheet Path: /Block Diagram/ | Reviewer: | Size: A3 | Sheet: 2 of 7 |

[3] Project Architecture



| | | | | |
|--|---------------------------------------|----------------------------------------------|----------------------------------|----------------------------------------------------|
| | Comments: | Company: | Variant: | Git Hash: |
| | FR | | PRELIMINARY | 76a8903 |
| | 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:
76a8903

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:
A4

Size:
A4
Sheet:
4 of **7**

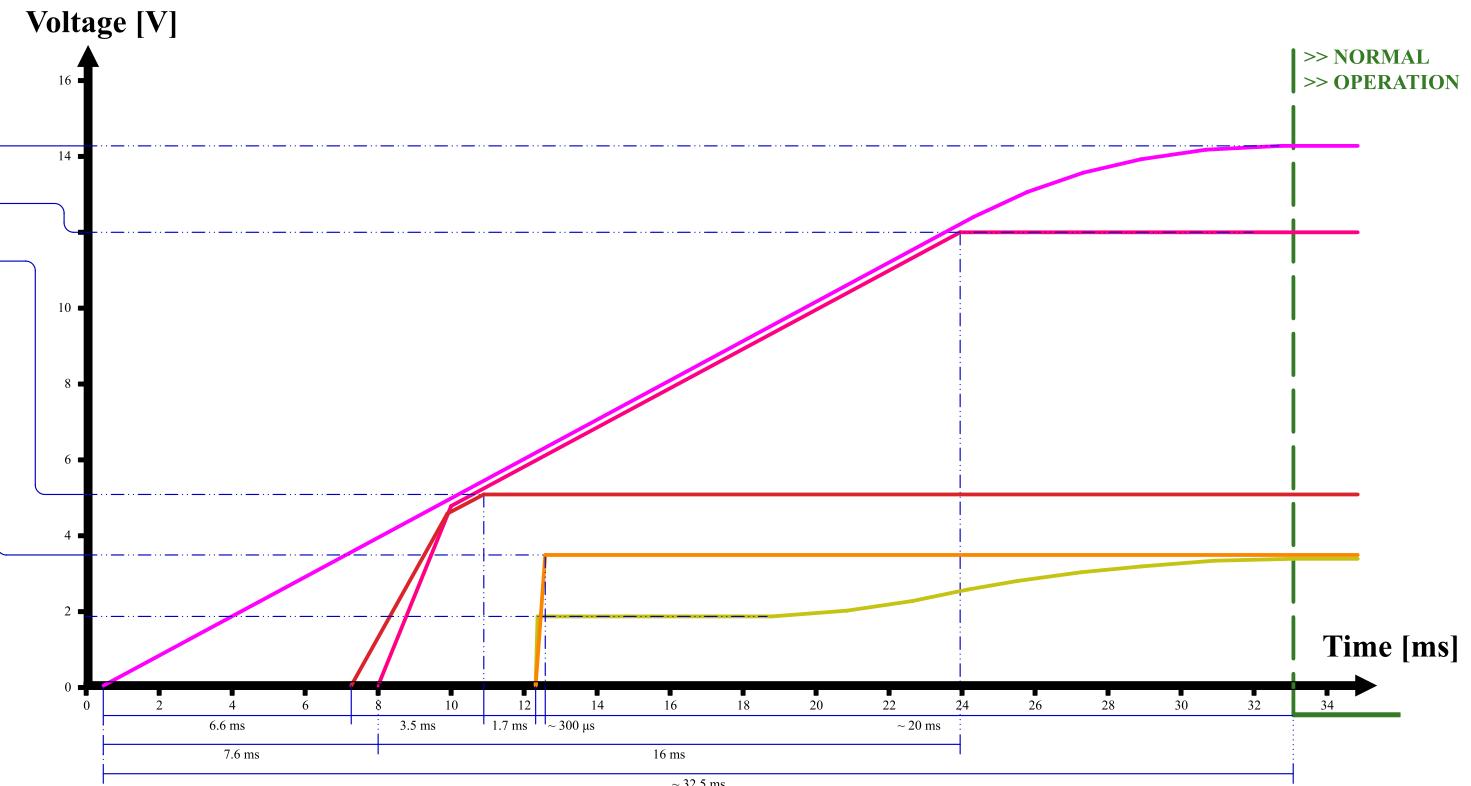
[5] Sheet Title B



| | | | | |
|--|-----------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------|---------------------------------------|
| | Comments: References: Flexible I/O worked examples Flexible I/O source configuration | Company: FR | Variant: PRELIMINARY | Git Hash: 76a8903 |
| | 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 + (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: | Variant: | Git Hash: | |
| | | | FR | FR | | | |
| | | | Board Name: | Project Name: | | | |
| | | | Module | Alixp Step up module 12 to 450 V | | | |
| Sheet Title: | | File Name: | Designer: | Date: | Revision: | | |
| Power - Sequencing | | Power - Sequencing.kicad_sch | FR | 2025-01-12 | + (Unreleased) | | |
| Sheet Path: | | Reviewer: | | Size: | Sheet: | | |
| /Power - Sequencing/ | | A4 | | 6 | of 7 | | |

[7] Revision History

| | | | | | |
|--|-----------------------------------|------------------------------------------|----------------------------------------------------------|---------------------------------------|-------------------------|
| | Comments: | Company: FR | Variant: PRELIMINARY | Git Hash: 76a8903 | |
| | | 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 + (Unreleased) | Revision: D |
| | Sheet Path: /Revision History/ | | Reviewer: | Size: A4 | Sheet: 7 of 7 |