

Balanced Solar Charger

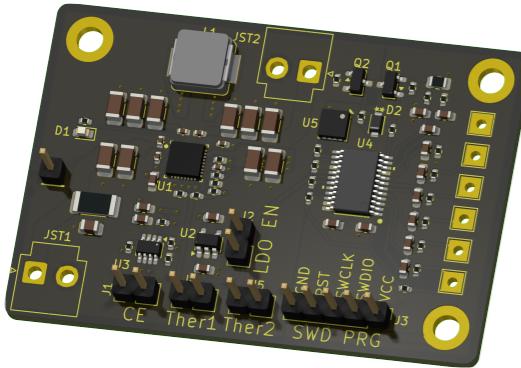
Variant: RELEASED

2026-01-09

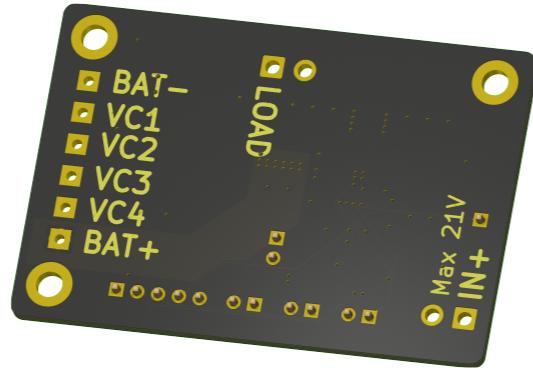
Rev 1.0.0

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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: 09-Jan-2026

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.

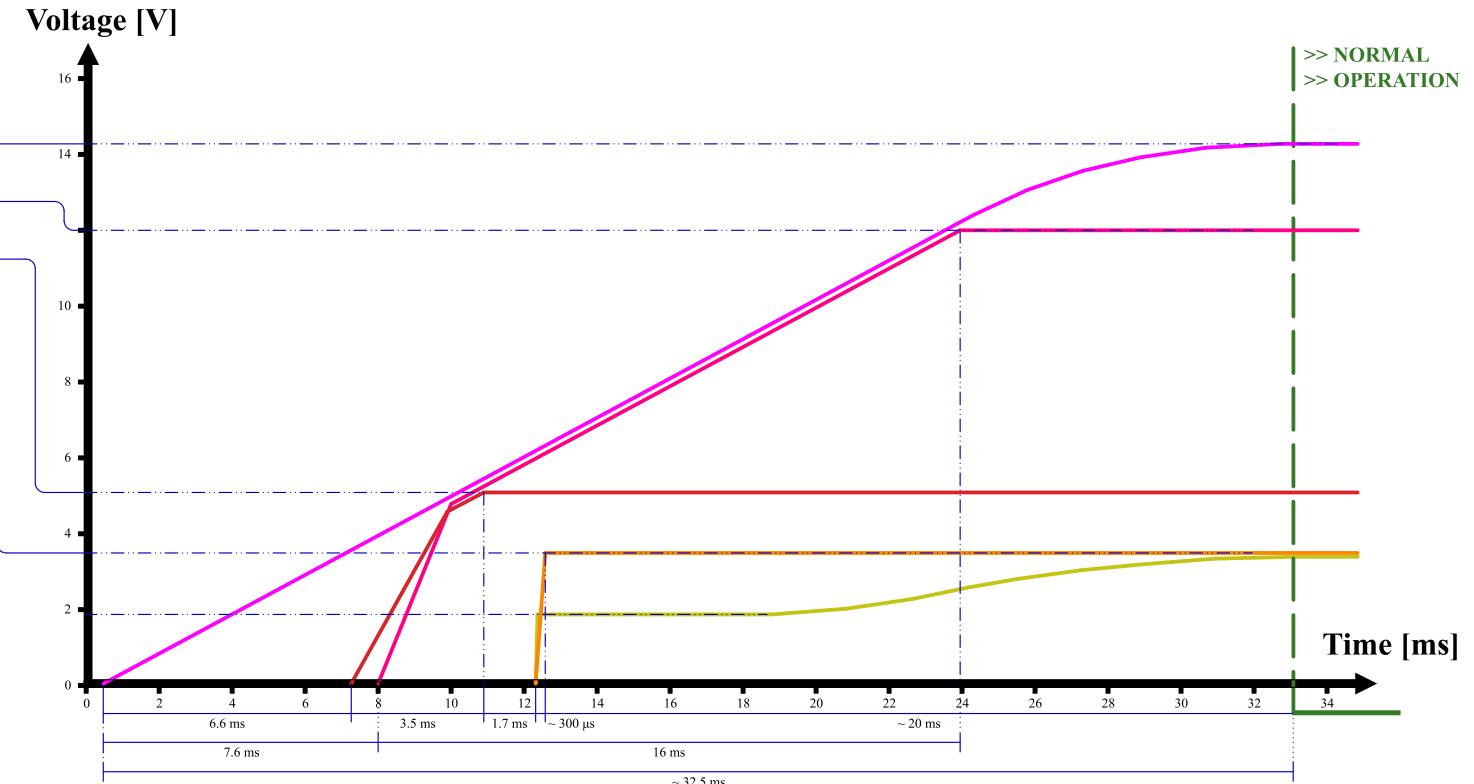
DESIGN NOTE:
Example text for critical design notes.

LAYOUT NOTE:
Example text for critical layout guidelines.

	Comments:	Company: Electronic-Handyman	Variant: RELEASED	Git Hash: 7f04126
	Board Name: Balanced Solar Charger	Project Name: Balanced Solar Charger		
	Sheet Title: /	File Name: solar_smart_station.kicad_sch	Designer: Nhan Duy Truong	Date: 2025-01-12
	Sheet Path: /	Reviewer:	Size: A3	Revision: 1.0.0

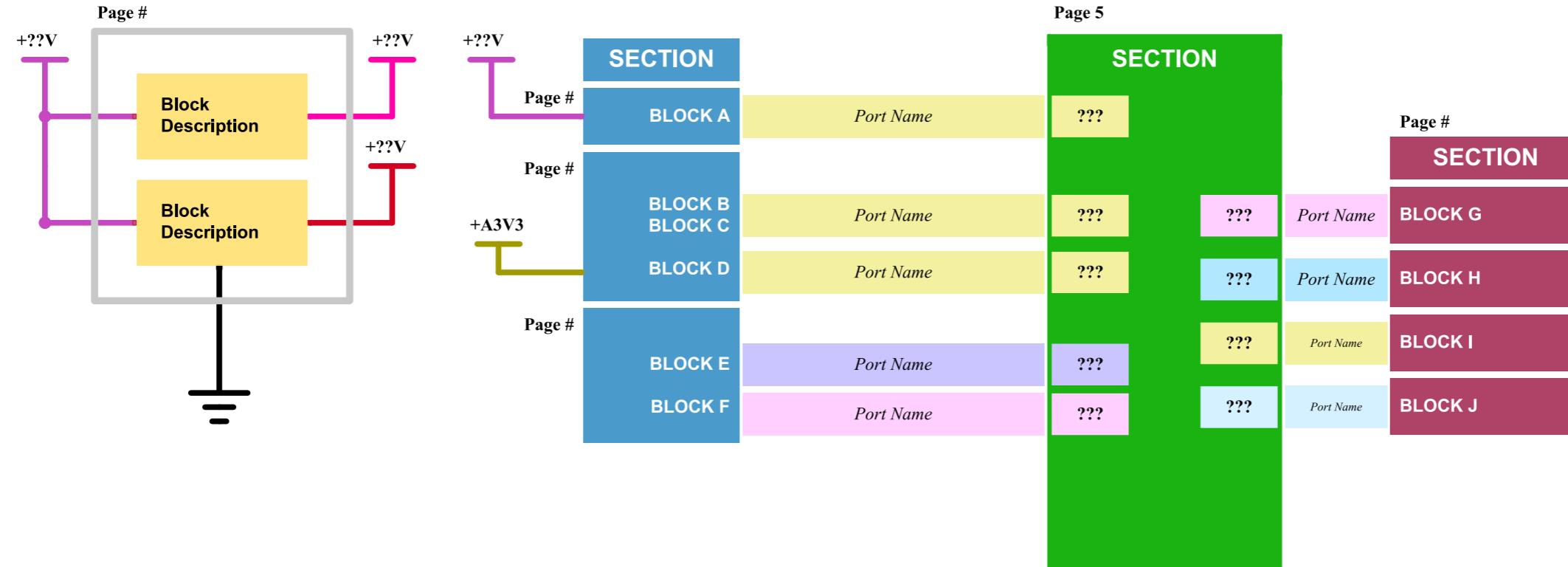
[0] Power - Sequencing

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



		Comments:	Company:	Variant:	Git Hash:
			Electronic-Handyman	RELEASED	7f04126
		Board Name:	Project Name:		Balanced Solar Charger
		Balanced Solar Charger	Balanced Solar Charger		
		Sheet Title:	File Name:	Designer:	Date: Revision:
		Power - Sequencing	Power - Sequencing.kicad_sch	Nhan Duy Truong	2025-01-12 1.0.0
		Sheet Path:	Reviewer:	Size:	Sheet:
		/Power - Sequencing/		A4	0 of 9

[2] Block Diagram

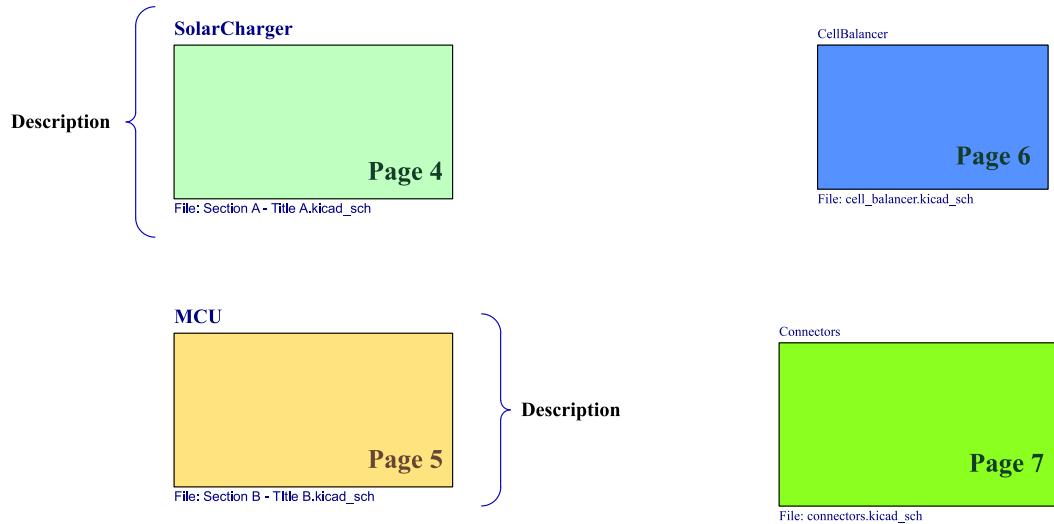


Target specifications:

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

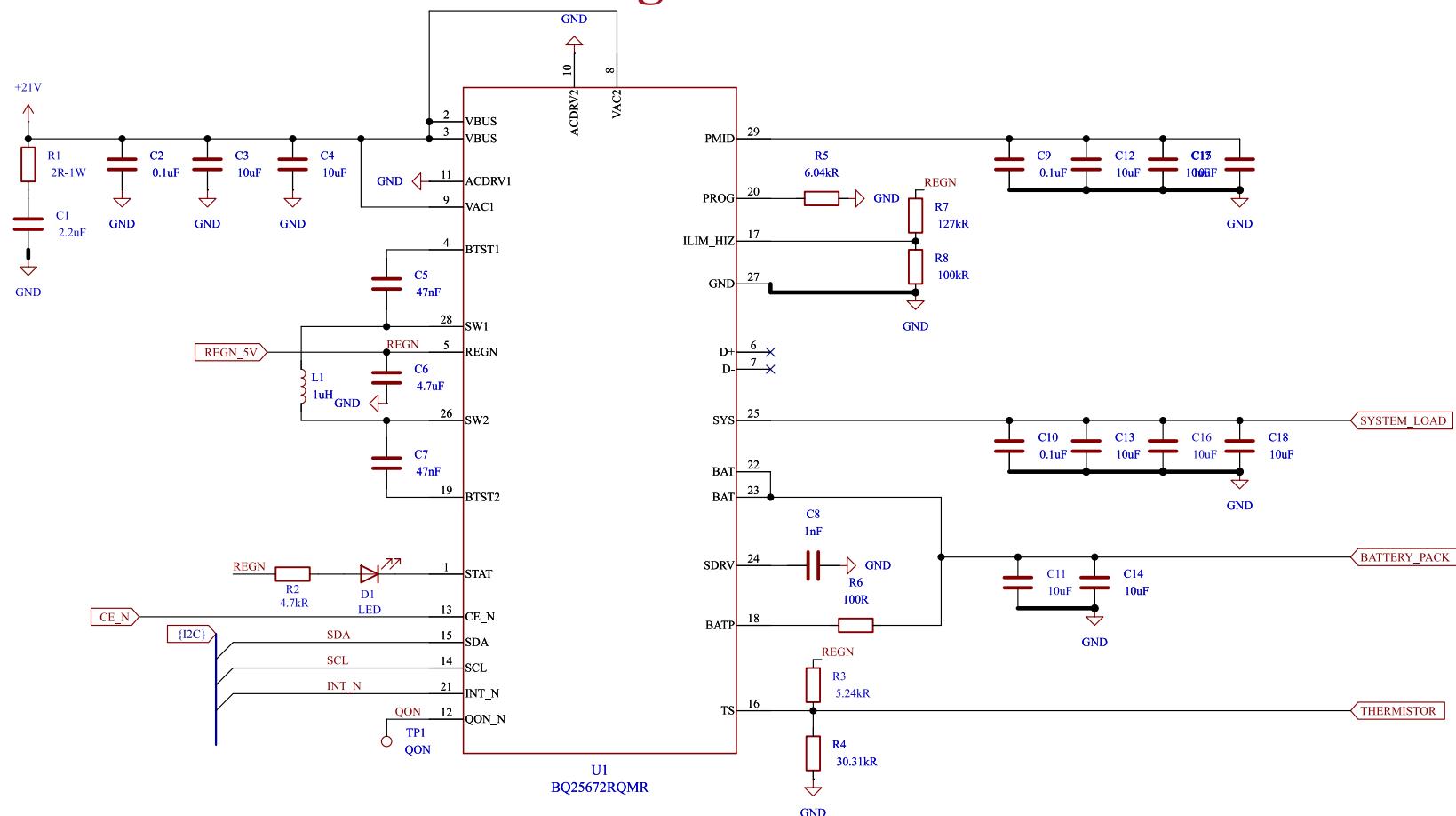
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		Electronic-Handyman	Variant:	Git Hash:
	Board Name:			Project Name:
		Balanced Solar Charger	Balanced Solar Charger	
	Sheet Title:	File Name:	Designer:	Date:
	Block Diagram	Block Diagram.kicad_sch	Nhan Duy Truong	2025-01-12
	Sheet Path:	Reviewer:		Revision:
	/Block Diagram/			1.0.0
	Size:	Sheet:		
	A3	2 of 9		

[3] Project Architecture



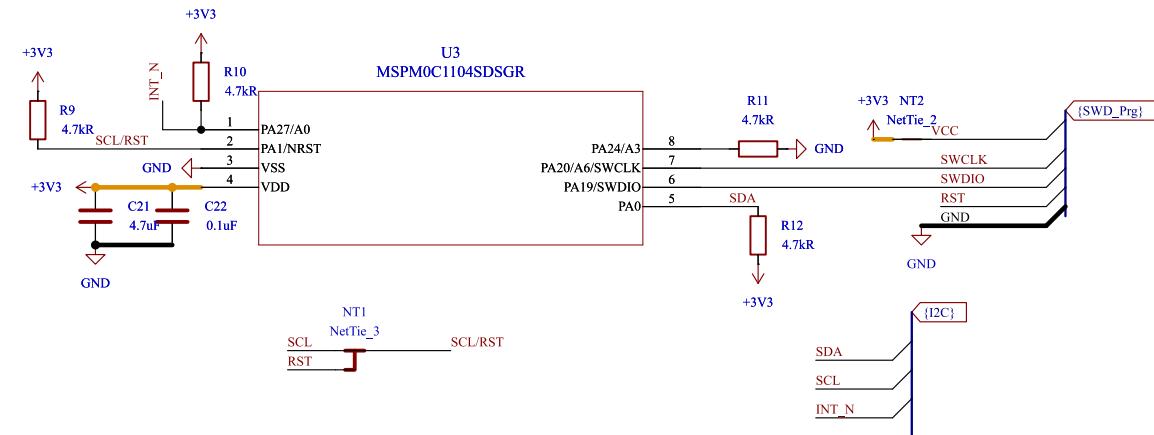
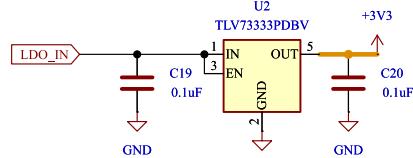
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	Board Name: Balanced Solar Charger			Project Name: Balanced Solar Charger
	Sheet Title: Project Architecture	File Name: Project Architecture.kicad_sch	Designer: Nhan Duy Truong	Date: 2025-01-12 Revision: 1.0.0
	Sheet Path: /Project Architecture/		Reviewer:	Size: A4 Sheet: 3 of 9

[4] Solar Charger

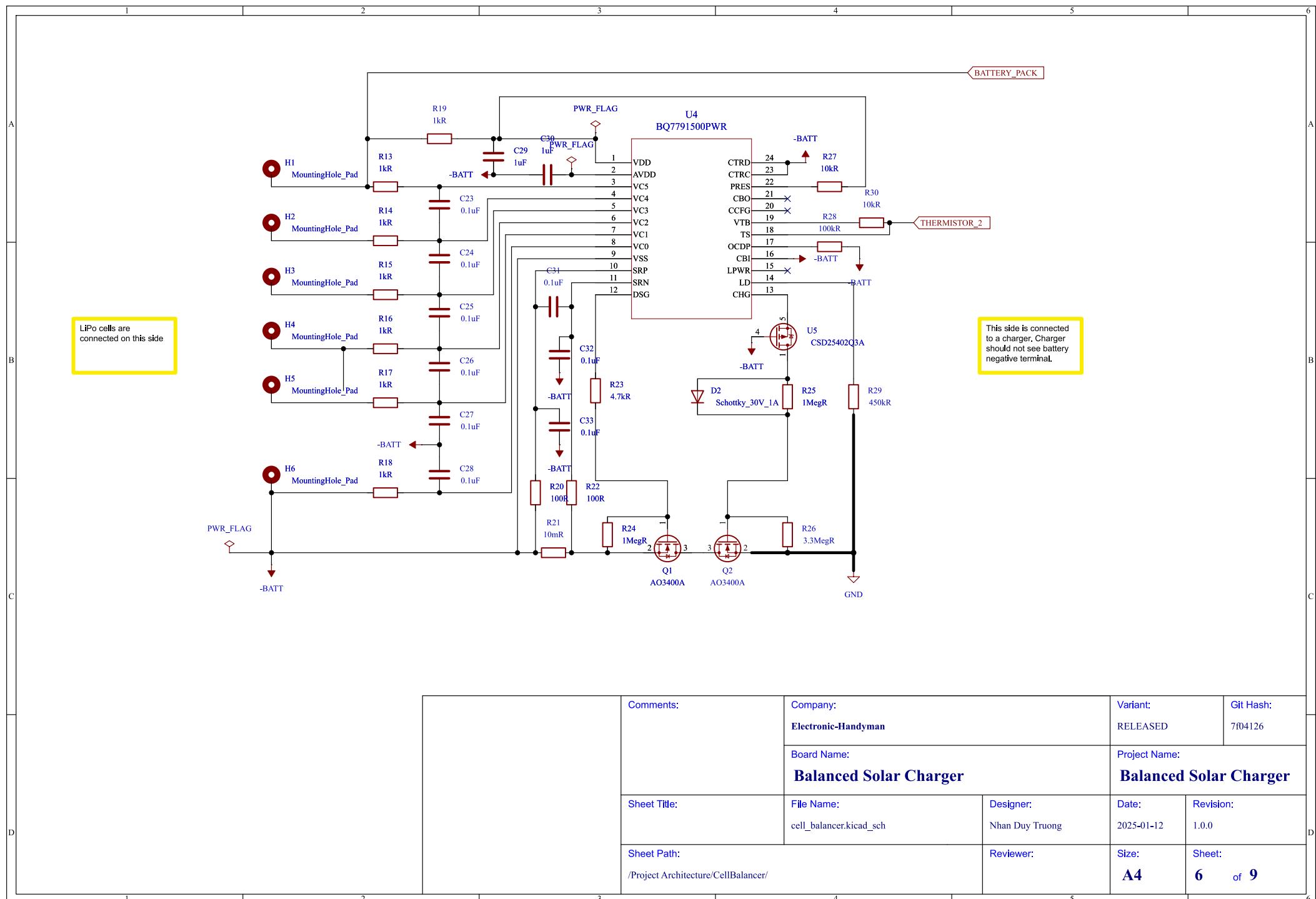


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	Board Name: Balanced Solar Charger	Project Name: Balanced Solar Charger		
	Sheet Title: Solar Charger	File Name: Section A - Title A.kicad_sch	Designer: Nhan Duy Truong	Date: 2025-01-12
	Sheet Path: /Project Architecture/SolarCharger/	Reviewer:	Size: A4	Revision: 1.0.0

[5] MCU

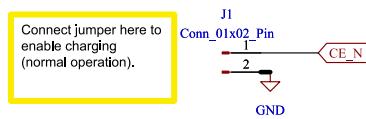


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	Board Name: Balanced Solar Charger	Project Name: Balanced Solar Charger		
	Sheet Title: MCU	File Name: Section B - Title B.kicad_sch	Designer: Nhan Duy Truong	Date: 2025-01-12 Revision: 1.0.0
	Sheet Path: /Project Architecture/MCU/		Reviewer:	Size: A4 Sheet: 5 of 9

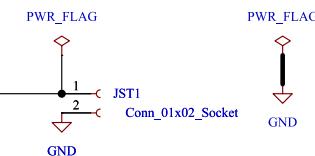


[7] Connectors

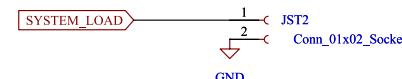
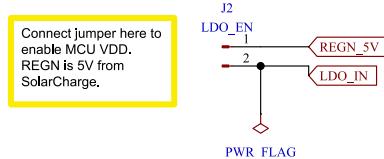
A



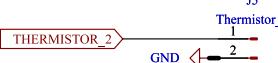
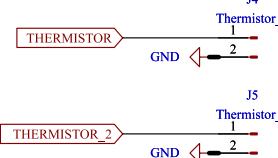
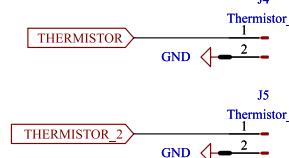
Placing input (solar) on one side and the rest on the opposite side of the PCB



B



C



D

	Comments:	Company: Electronic-Handyman	Variant: RELEASED	Git Hash: 7f04126
	Board Name: Balanced Solar Charger			Project Name: Balanced Solar Charger
	Sheet Title: Connectors	File Name: connectors.kicad_sch	Designer: Nhan Duy Truong	Date: 2025-01-12 Revision: 1.0.0
	Sheet Path: /Project Architecture/Connectors/		Reviewer:	Size: A4 Sheet: 7 of 9

[8] Revision History

A	<p>Version 1.0.0 - 2026-01-09</p> <hr/> <p>Fixed</p> <ul style="list-style-type: none">- Fixes <hr/> <p>Added</p> <ul style="list-style-type: none">- First version of PCB	A
B		B
C		C
D	<p>Comments:</p> <p>Company: Electronic-Handyman</p> <p>Board Name: Balanced Solar Charger</p> <p>Sheet Title: Revision History</p> <p>File Name: Revision History.kicad_sch</p> <p>Designer: Nhan Duy Truong</p> <p>Date: 2025-01-12</p> <p>Revision: 1.0.0</p> <p>Sheet Path: /Revision History/</p> <p>Reviewer:</p> <p>Size: A4</p> <p>Sheet: 8 of 9</p>	<p>Variant: RELEASED</p> <p>Git Hash: 7f04126</p> <p>Project Name: Balanced Solar Charger</p> <p>Date: 2025-01-12</p> <p>Revision: 1.0.0</p>