

Diagram illustrating the power supply sink configuration for the Open Battery Tester.

The diagram shows four input voltage sources connected to the power supply sink:

- 5V (PWR_FLAG)
- GND (PWR_FLAG)
- +10V (PWR_FLAG)
- +24V (PWR_FLAG)

The power supply sink is represented by a block labeled **power-electronics**, which includes the following components and connections:

- control** block (File: control.kicad_sch) with inputs **ref** and **meas**, and output **out**.
- power-electronics** block (File: power-electronics.kicad_sch) with inputs **v_in** and **v_out**.
- limit-logic** block (File: limit-logic.kicad_sch) with inputs **power_ok**, **conf_ok**, **conf_refselect_v**, **conf_vref**, **conf_uvl**, **conf_lvl**, **conf_refselect_i**, **conf_iref**, **conf_ucl**, **conf_lcl**, **meas_out_v**, and **meas_out_i**.

The power supply sink is connected to the power supply source (PWR_FLAG) and the power supply sink (PWR_FLAG).

Legend:

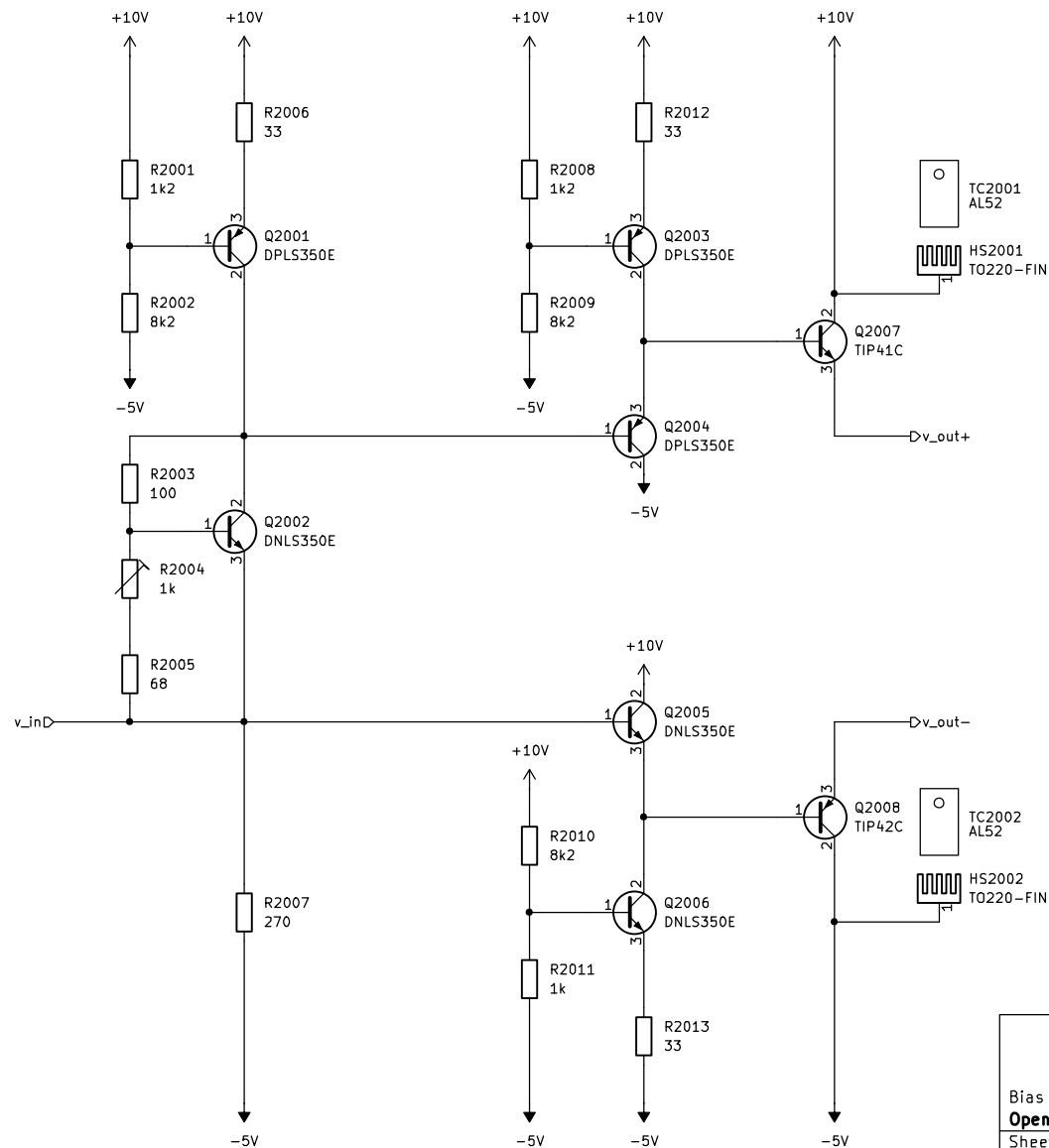
- ↑ PWR_FLAG
- ↓ GND
- ↑ PWR_FLAG
- ↑ PWR_FLAG

File: power-electronics.kicad_sch

File: control.kicad_sch

File: limit-logic.kicad_sch

Overview		
Open Battery Tester		
Sheet: /		
File: pss.kicad_sch		
Title: Power Supply Sink		
Size: A4	Date: 2024-11-06	Rev: 0.5.1
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Bias Stage
Open Battery Tester

Sheet: /power-electronics/bias/
File: bias.kicad_sch

Title: Power Supply Sink

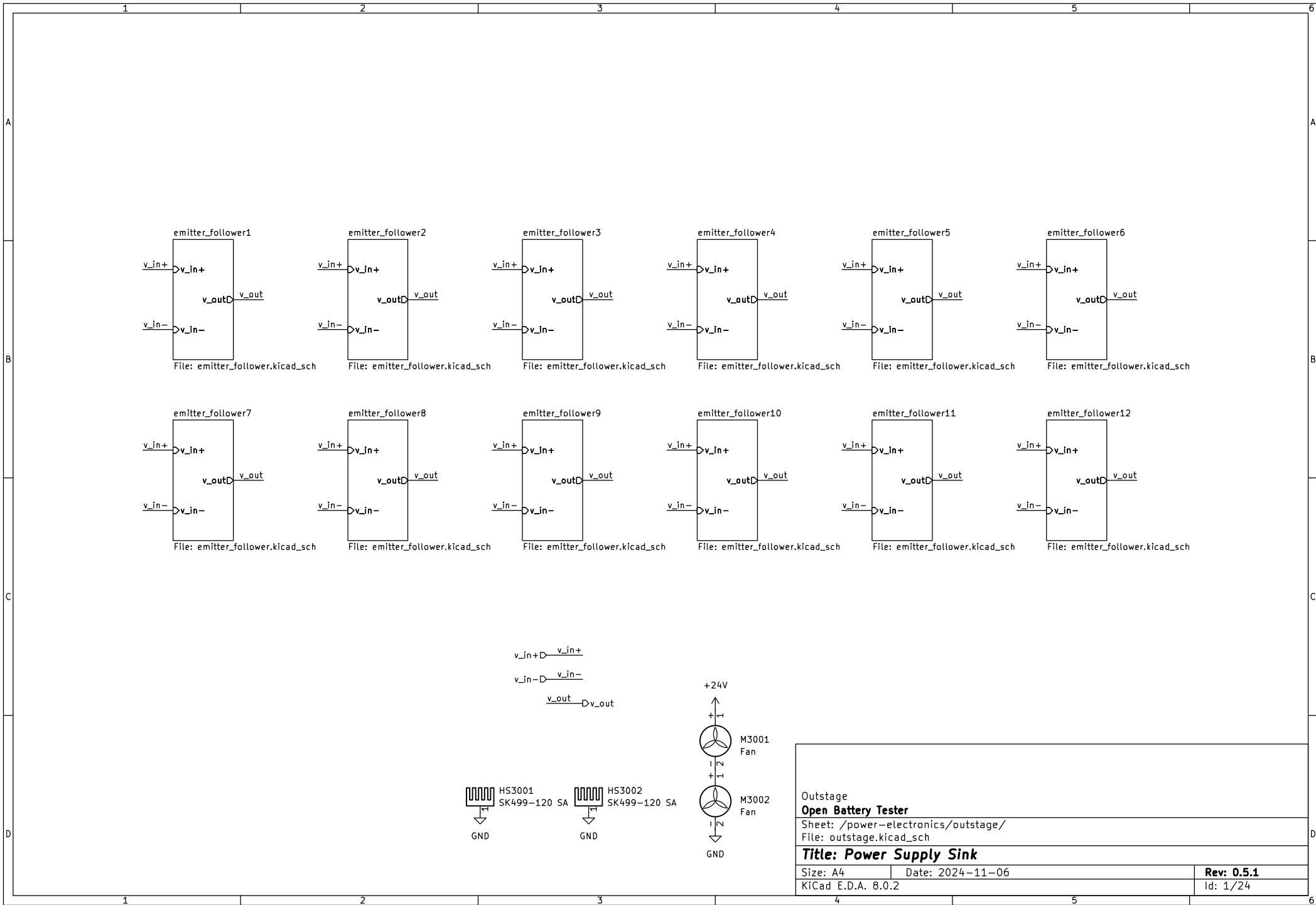
Size: A4

Date: 2024-11-06

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Outstage

Open Battery Tester

Sheet: /power-electronics/outstage/
File: outstage.kicad_sch

Title: Power Supply Sink

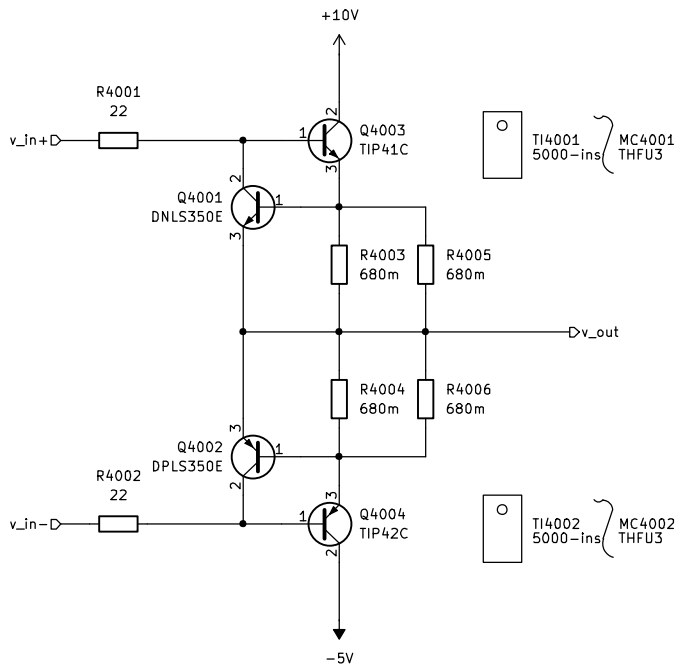
Size: A4

Date: 2024-11-06

Rev: 0.5.1

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Id: 1/24



Emitter Follower

Open Battery Tester

Sheet: /power-electronics/outstage/emitter_follower5/

File: emitter_follower.kicad_sch

Title: Power Supply Sink

Size: A4

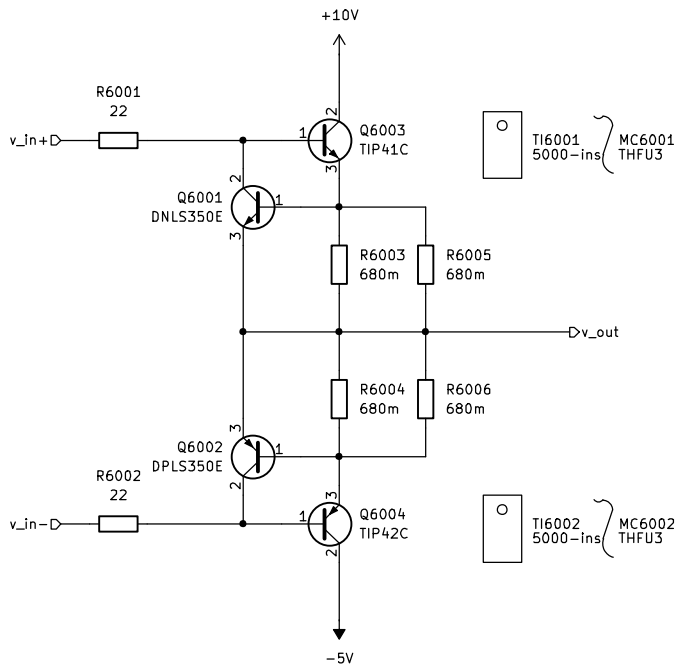
Date: 2024-11-06

Rev: 0.5.1

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Emitter Follower

Open Battery Tester

Sheet: /power-electronics/outstage/emitter_follower12/

File: emitter_follower.kicad_sch

Title: Power Supply Sink

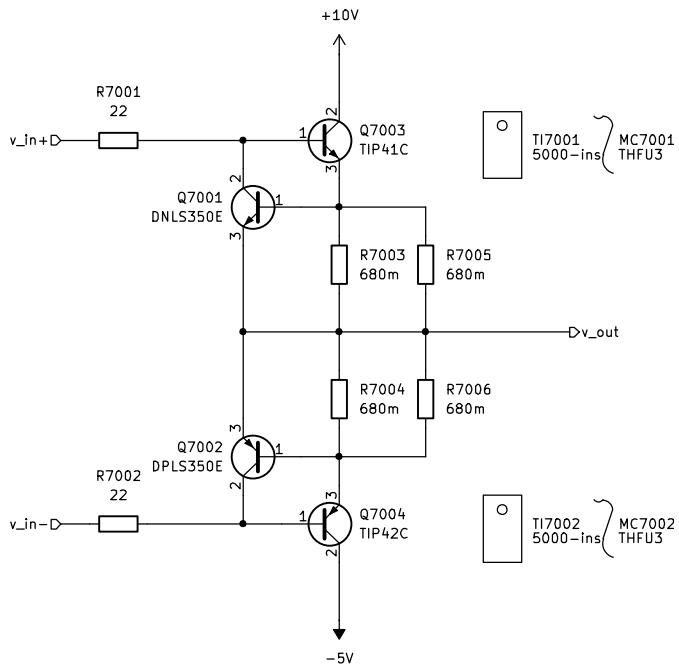
Size: A4

Date: 2024-11-06

Rev: 0.5.1

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Emitter Follower

Open Battery Tester

Sheet: /power-electronics/outstage/emitter_follower4/

File: emitter_follower.kicad_sch

Title: Power Supply Sink

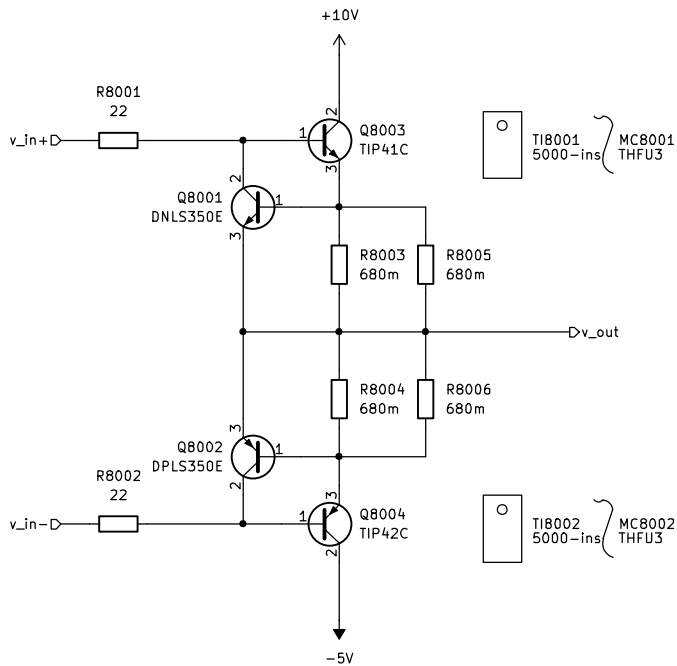
Size: A4

Date: 2024-11-06

Rev: 0.5.1

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Id: 6/24



Emitter Follower

Open Battery Tester

Sheet: /power-electronics/outstage/emitter_follower6/
File: emitter_follower.kicad_sch

Title: Power Supply Sink

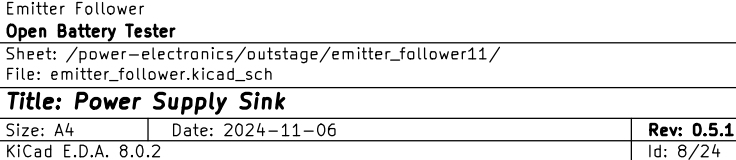
Size: A4

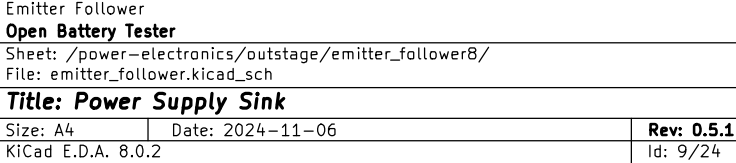
Date: 2024-11-06

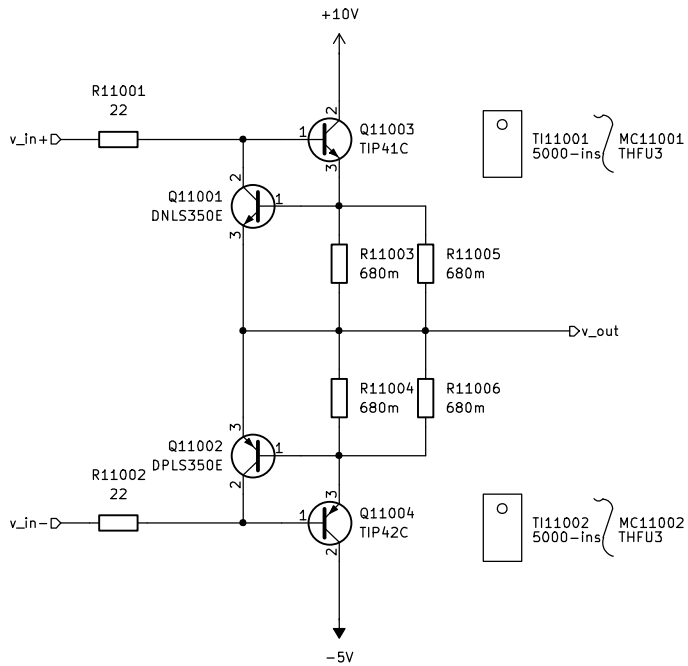
Rev: 0.5.1

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Id: 7/24







Emitter Follower

Open Battery Tester

Sheet: /power-electronics/outstage/emitter_follower2/

File: emitter_follower.kicad_sch

Title: Power Supply Sink

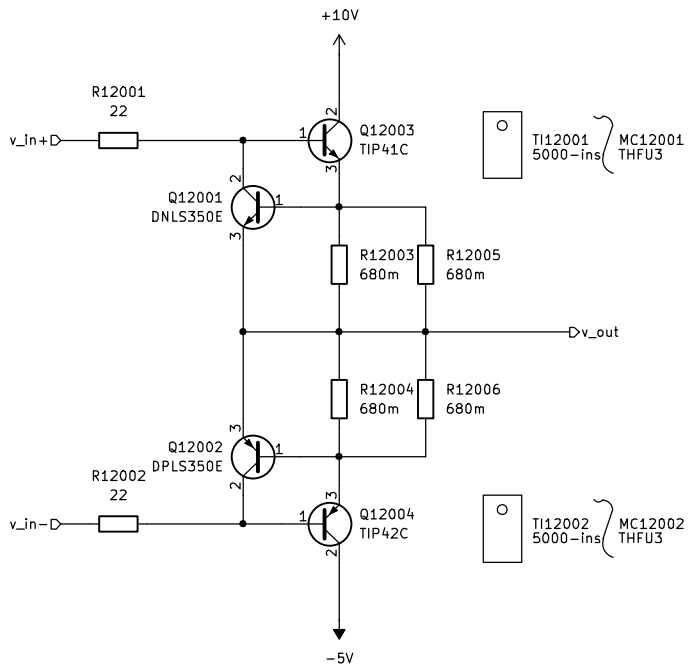
Size: A4

Date: 2024-11-06

Rev: 0.5.1

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Emitter Follower

Open Battery Tester

Sheet: /power-electronics/outstage/emitter_follower1/

File: emitter_follower.kicad_sch

Title: Power Supply Sink

Size: A4

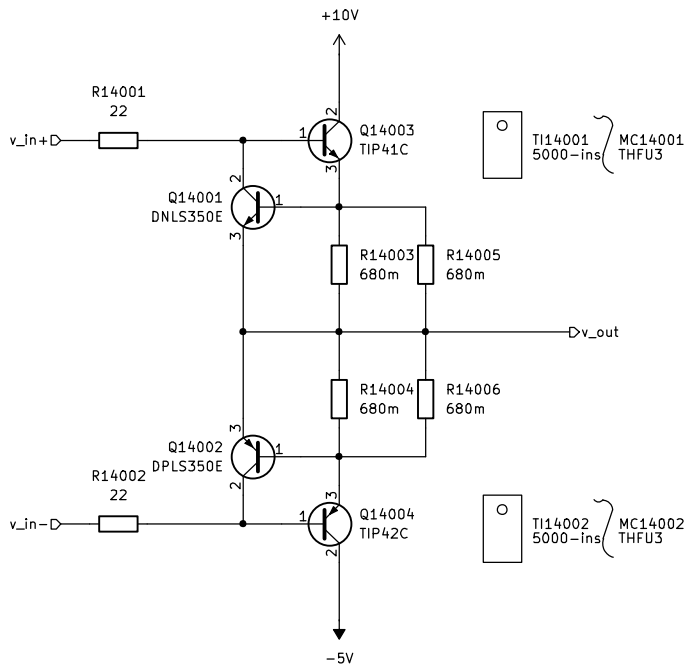
Date: 2024-11-06

Rev: 0.5.1

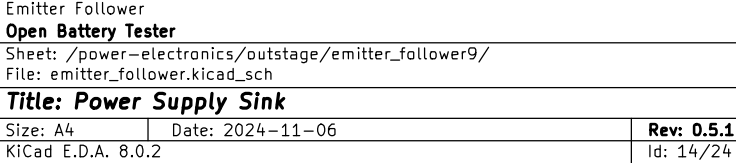
KiCad E.D.A. 8.0.2

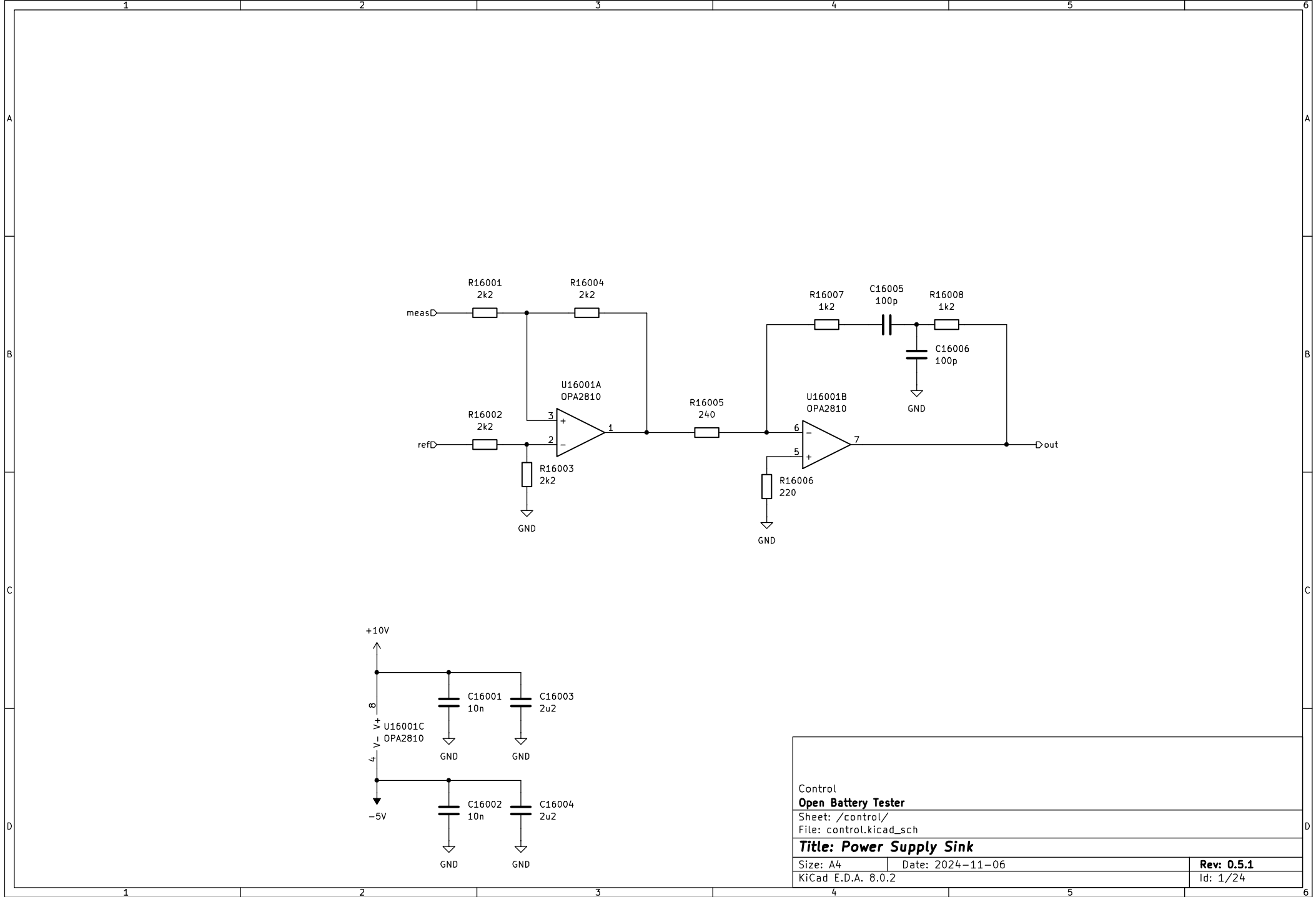
Id: 11/24

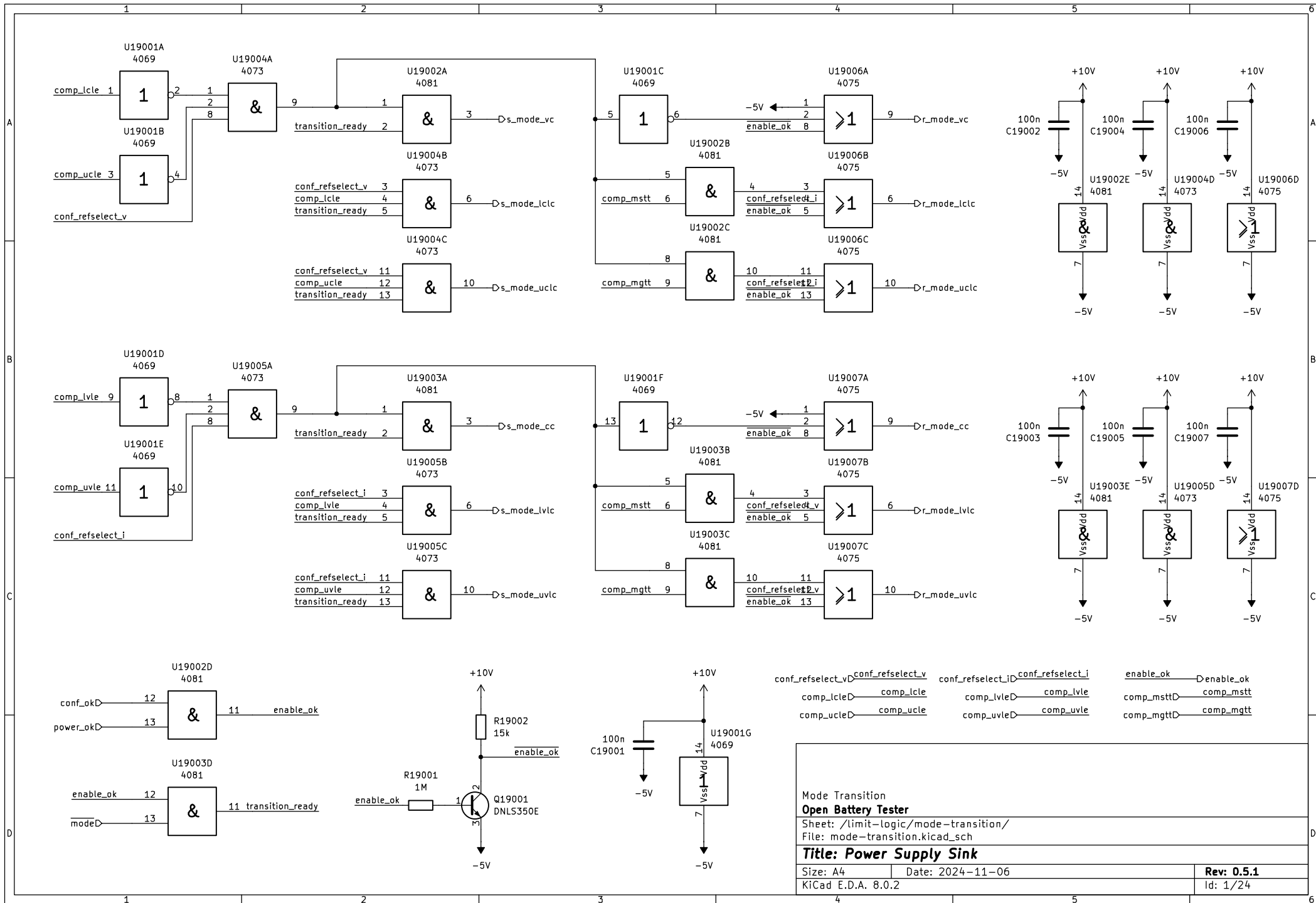
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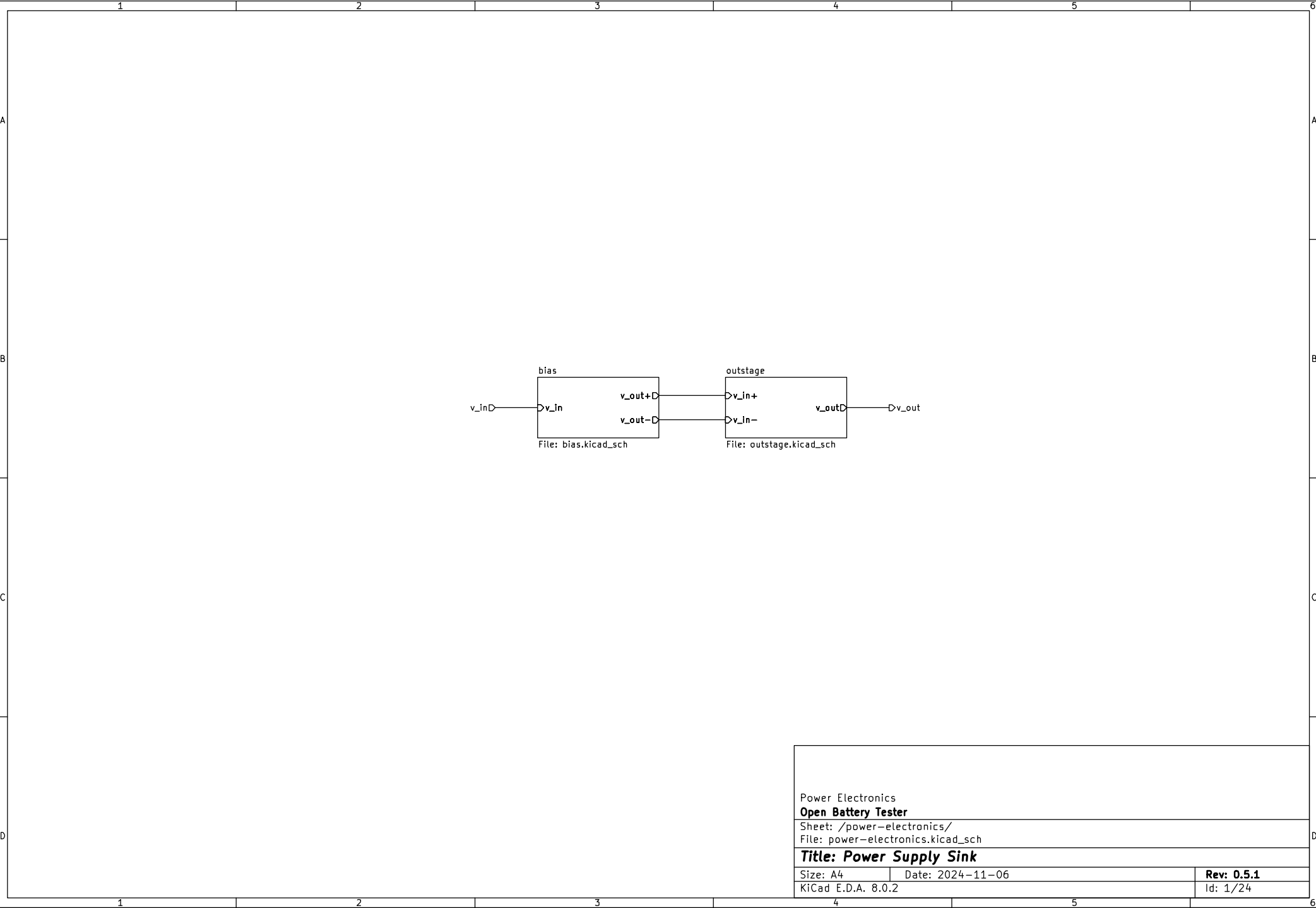


Emitter Follower		
Open Battery Tester		
Sheet: /power-electronics/outstage/emitter_follower3/		
File: emitter_follower.kicad_sch		
Title: Power Supply Sink		
Size: A4	Date: 2024-11-06	Rev: 0.5.1
KiCad E.D.A. 8.0.2	Id: 13/24	









Power Electronics

Open Battery Tester

Sheet: /power-electronics/

File: power-electronics.kicad_sch

Title: Power Supply Sink

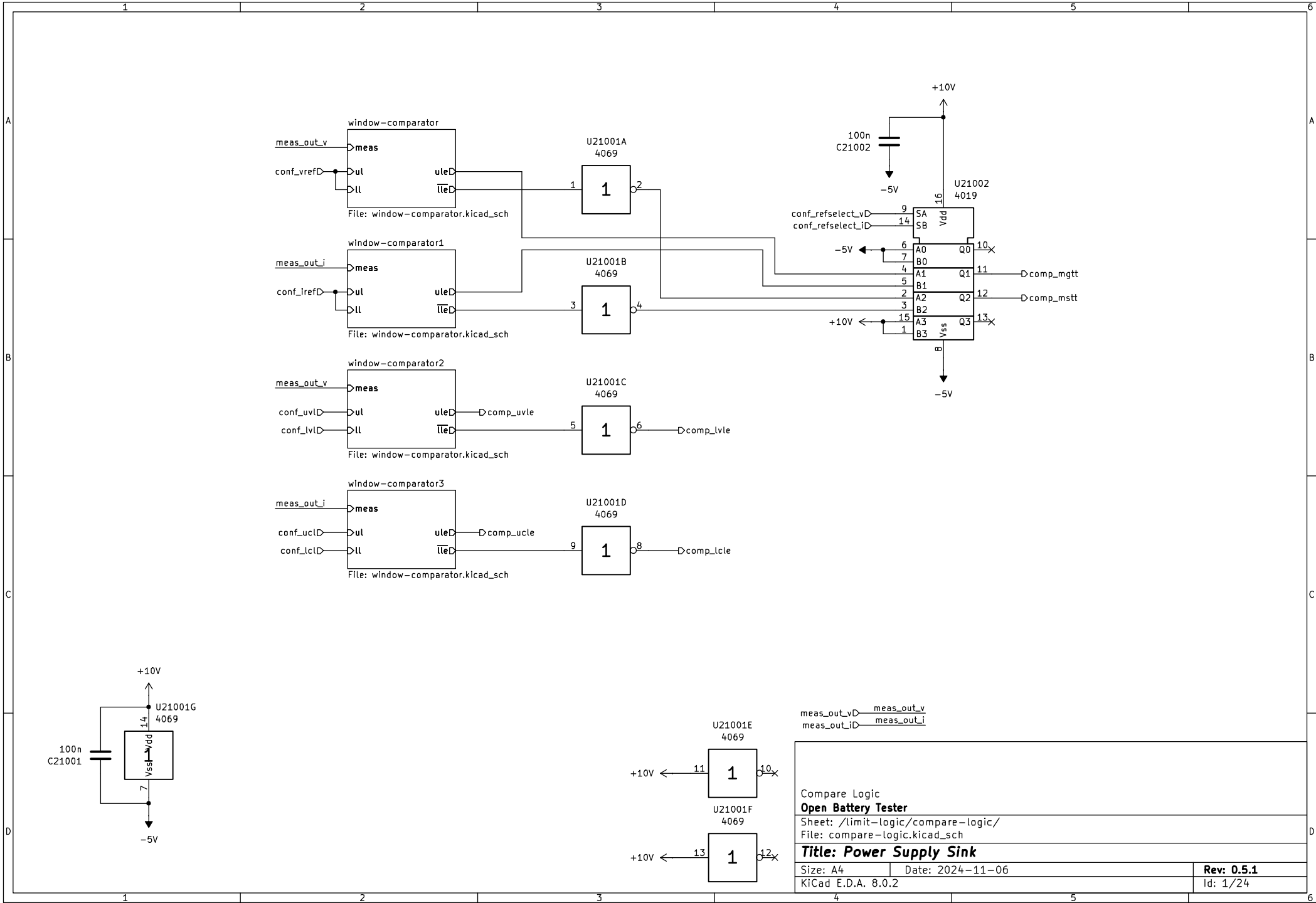
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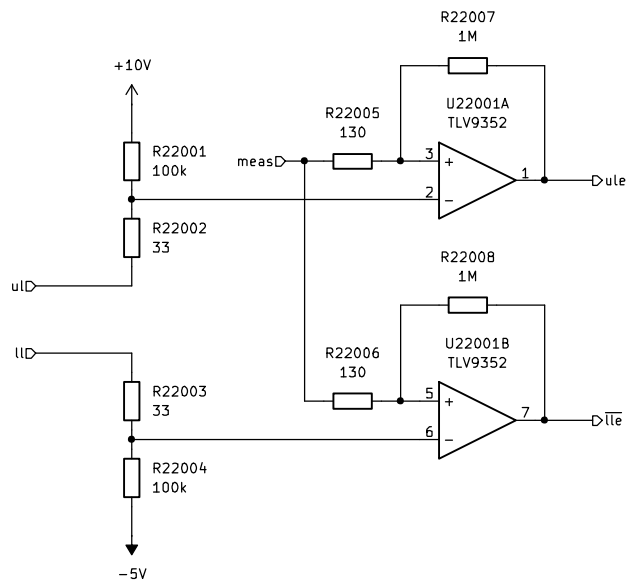
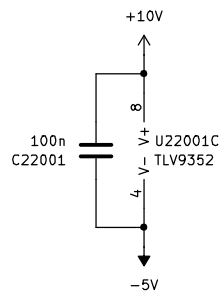
Date: 2024-11-06

Rev: 0.5.1

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Window-Comparator
Open Battery Tester

Sheet: /limit-logic/compare-logic/window-comparator/
File: window-comparator.kicad_sch

Title: Power Supply Sink

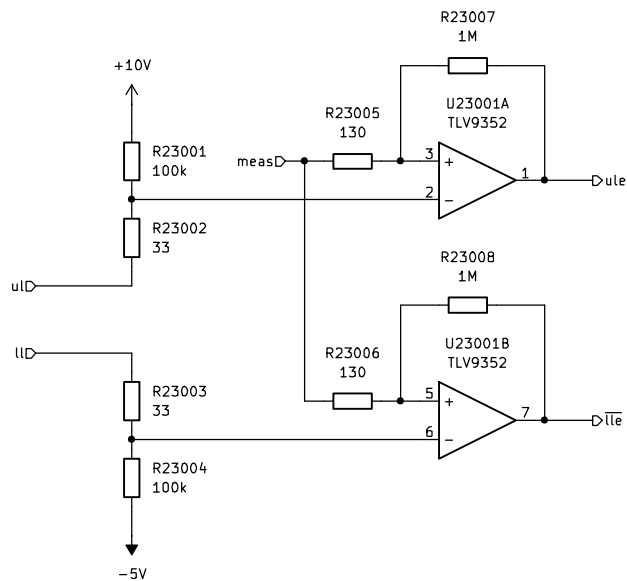
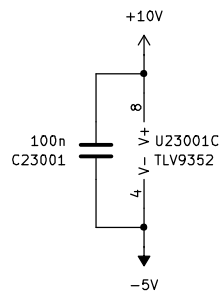
Size: A4

Date: 2024-11-06

Rev: 0.5.1

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Window-Comparator
Open Battery Tester

Sheet: /limit-logic/compare-logic/window-comparator1/
File: window-comparator.kicad_sch

Title: Power Supply Sink

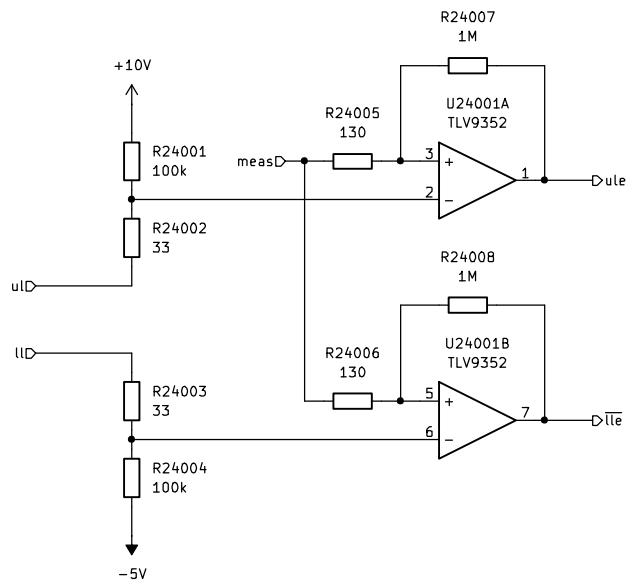
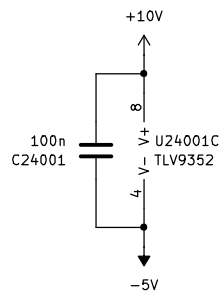
Size: A4

Date: 2024-11-06

Rev: 0.5.1

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Window-Comparator
Open Battery Tester

Sheet: /limit-logic/compare-logic/window-comparator2/
File: window-comparator.kicad_sch

Title: Power Supply Sink

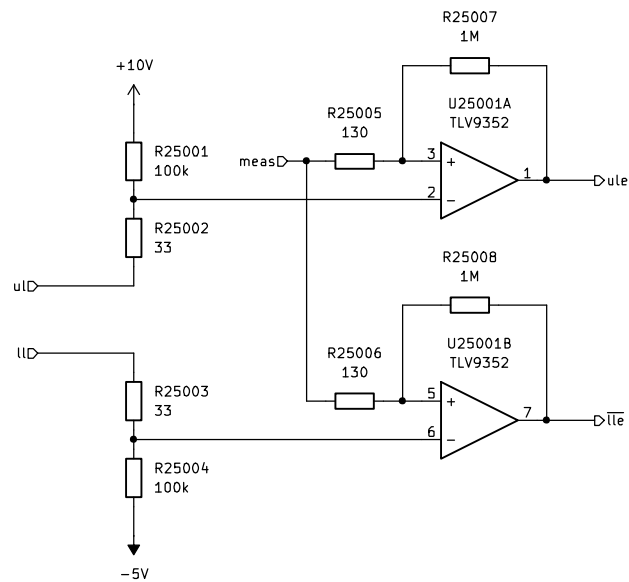
Size: A4

Date: 2024-11-06

Rev: 0.5.1

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