

Electrical power system battery module 4 cells Hardware:

- Designed by: Amanda Batista Medeiros
- Based on FloripaSat-I Battery Board
- Reviewers: André M. P. Mattos
- Support: Gabriel M. Marcelino and Yan C. de Azeredo

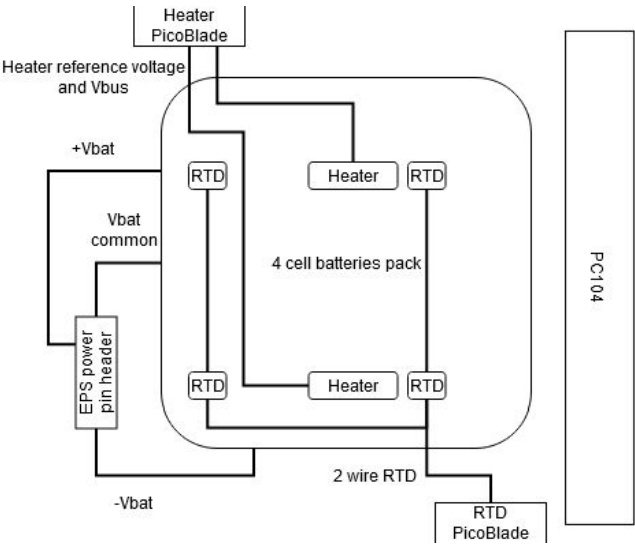
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Project github repository: <https://github.com/spacelab-ufsc/battery-module-4c>

Project info

| Rev | Description   | Date        | Author             |
|-----|---|-------------|--------------------|
| 0.1 | <ul style="list-style-type: none"><li>- Initial release</li><li>- Hardware improvements and fixes based on the first EPS batteries board</li><li>- Charge capacity increase, from 2 batteries (series) to 4 baterries (series/parallel)</li></ul> | 04-Oct-2020 | Andre M. P. Mattos |
|     |   |             |                    |
|     |   |             |                    |
|     |   |             |                    |
|     |   |             |                    |

Revision History



Block Diagram

SpaceLab - Federal University of Santa Catarina

Project: *bat2\_project.prjpcb / [No Variations]*

Title: *Project's info and block diagram*

Designed by: *Amanda Batista Medeiros*

Date: 1/21/2021

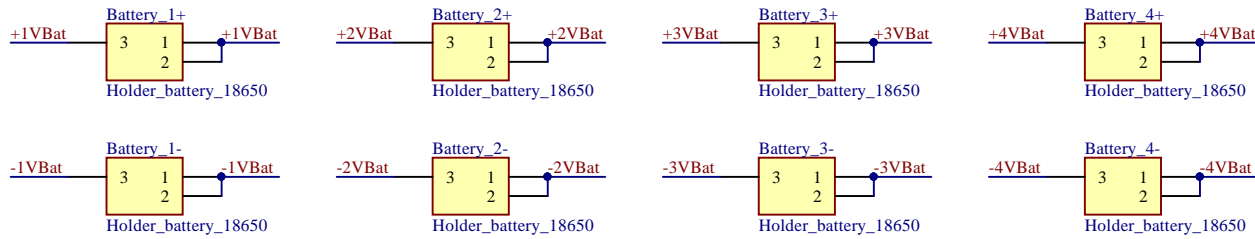
Revision: *v0.1*

Sheet *1* of *2*

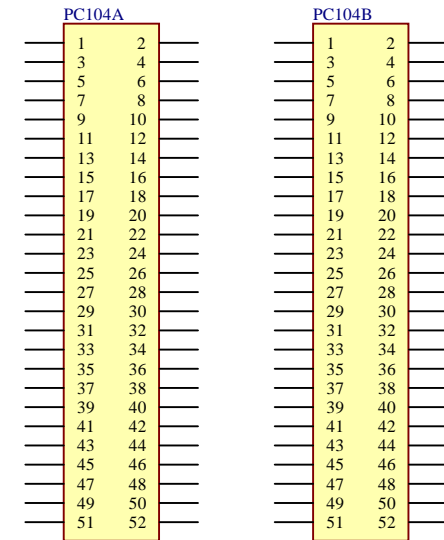
Size: *A4*



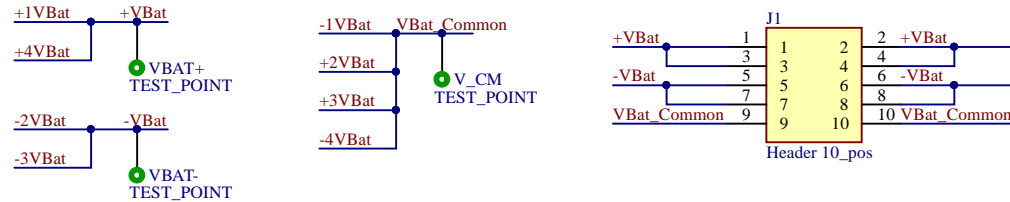
## BATTERIES' CONNECTORS



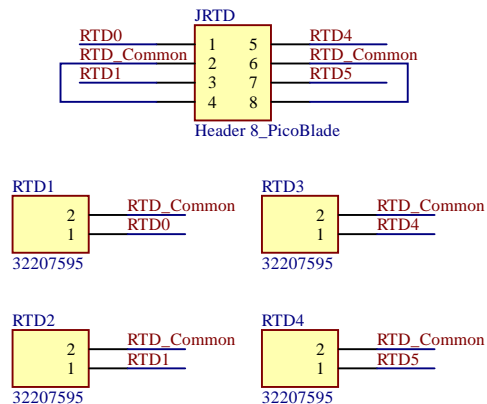
## PC104 CONNECTIONS



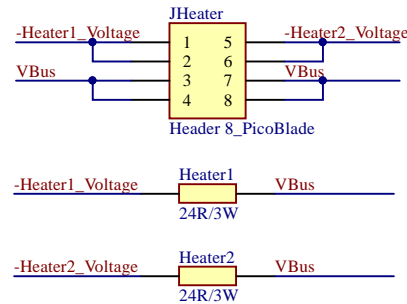
## BATTERY CONNECTIONS



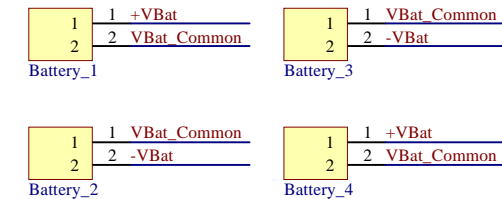
## RTD SENSORS CONNECTIONS



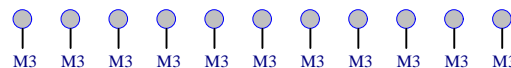
## HEATER CONNECTION



## BATTERIES' PADS



## MECHANICAL HOLES



SpaceLab - Federal University of Santa Catarina

Project: bat2\_project.pripcb / [No Variations]

Title: Batteries pads and connectors

Designed by: Amanda Batista Medeiros

Date: 1/21/2021

Revision: v0.1

Sheet 2 of 2



Project Code: BAT2

Size: A4