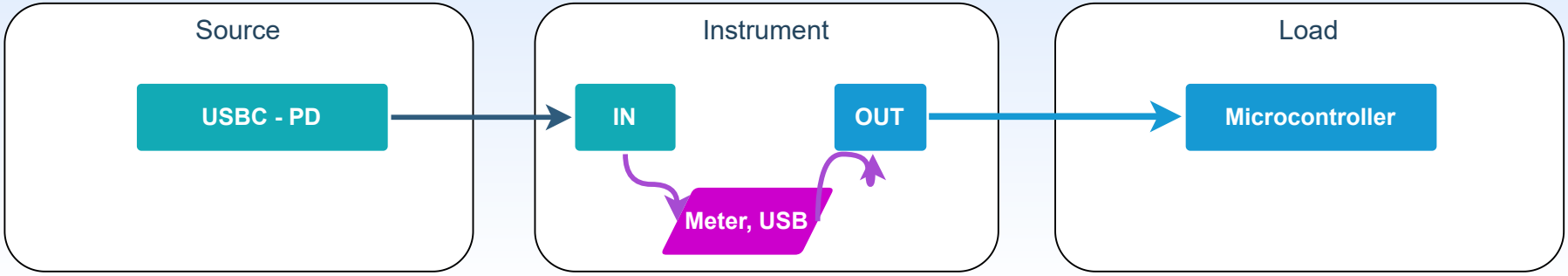
# How to Use the Power Bench

## Design your Query

1 Select a source of power

2 Select an instrument

3 Select a load

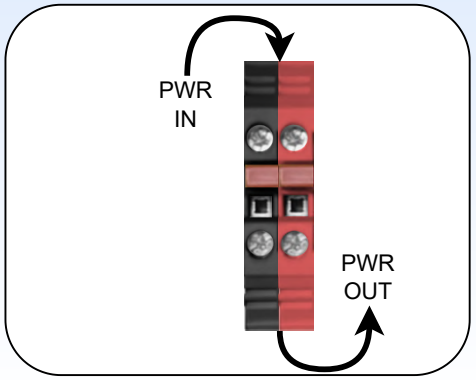


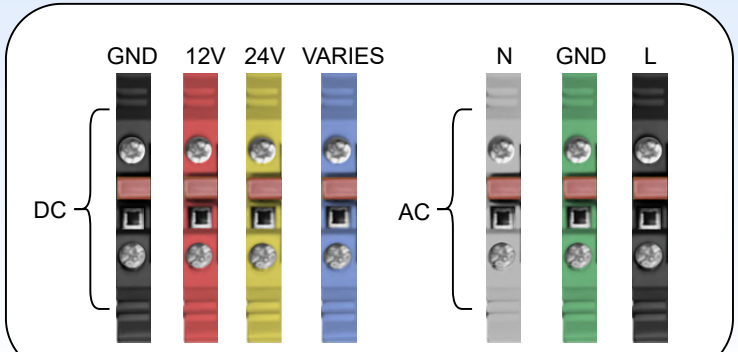

## Connect devices safely

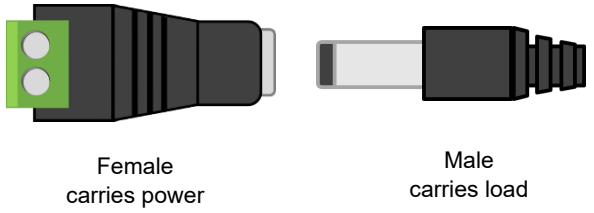
4 Power enters at top

5 Color matches voltage

6 source power from female connectors




## Run your trial

7 Diagram

| Verify your plan |
| --- |
| draw diagram |
| hypothesize result |
| know your min/max per device |

8 Prepare devices

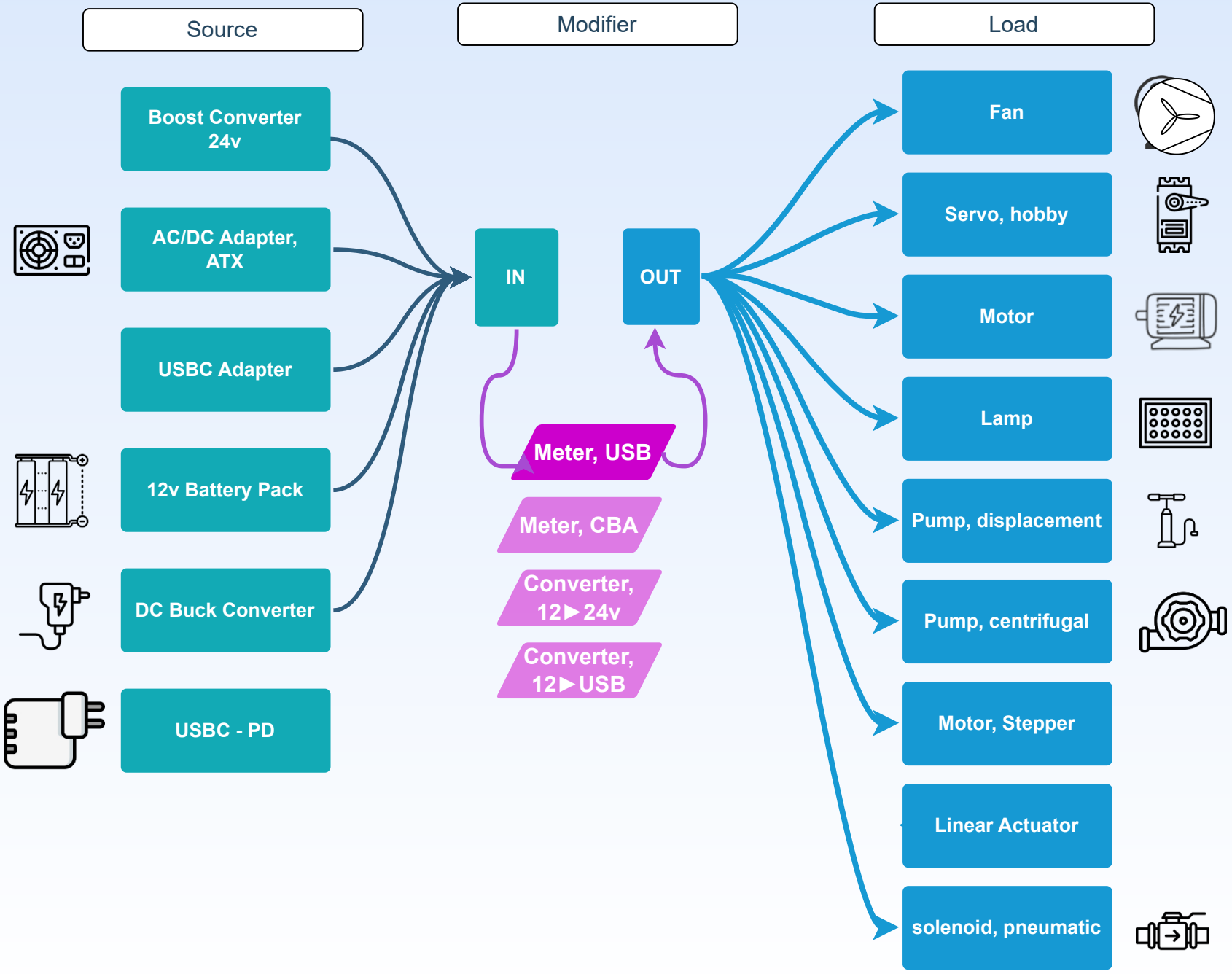
| Test individual Parts |
| --- |
| fuse unknown loads |
| prepare CBA test profile |
| dry run each item (check psu voltage, etc) |

9 Collect Data

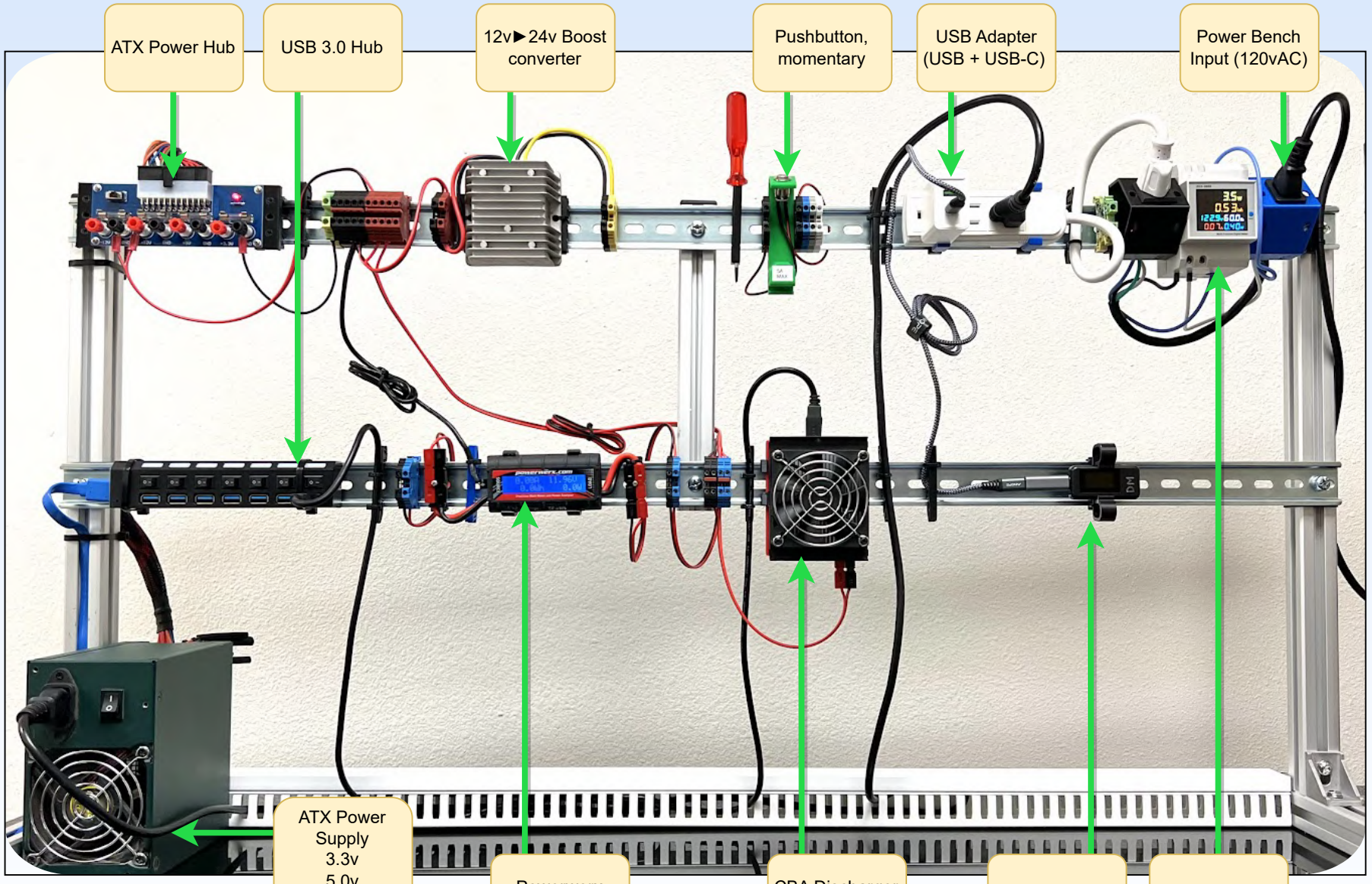
| make reproducible result |
| --- |
| Input on Spreadsheet |
| Note Dates / trial numbers |
| Note model/serial numbers |

# Power Bench: Test Concept

Collection of common sources and loads for MXET systems.



# Power Bench: Key Components



## Source Testing, with PowerWerx


Power Supply Breakout Board, ATX

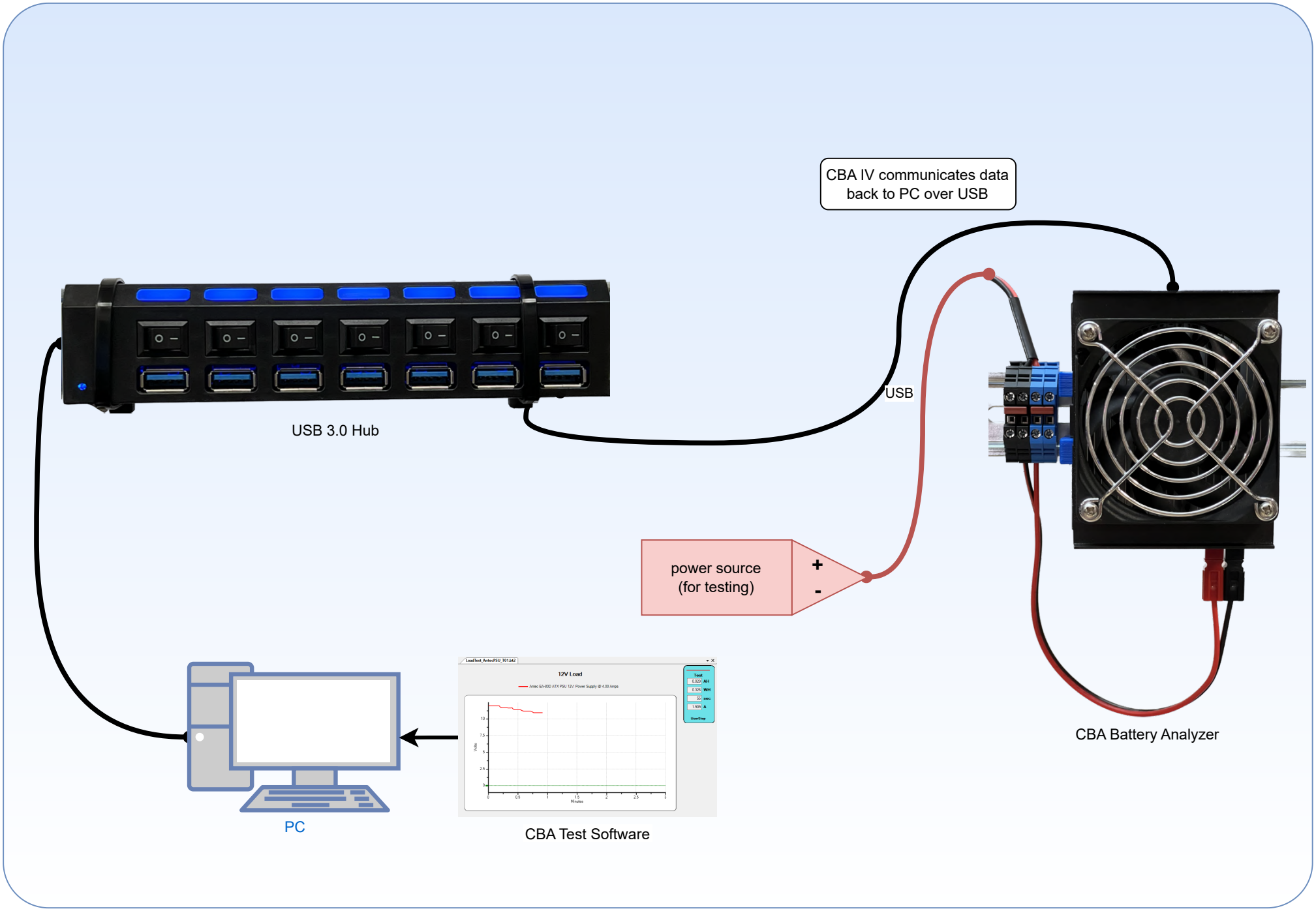
12v supplied to auxillary input to improve accuracy of measurements. Power Meter works without Aux but then powers itself from your source input.


Power Supply, ATX - Antec 380w

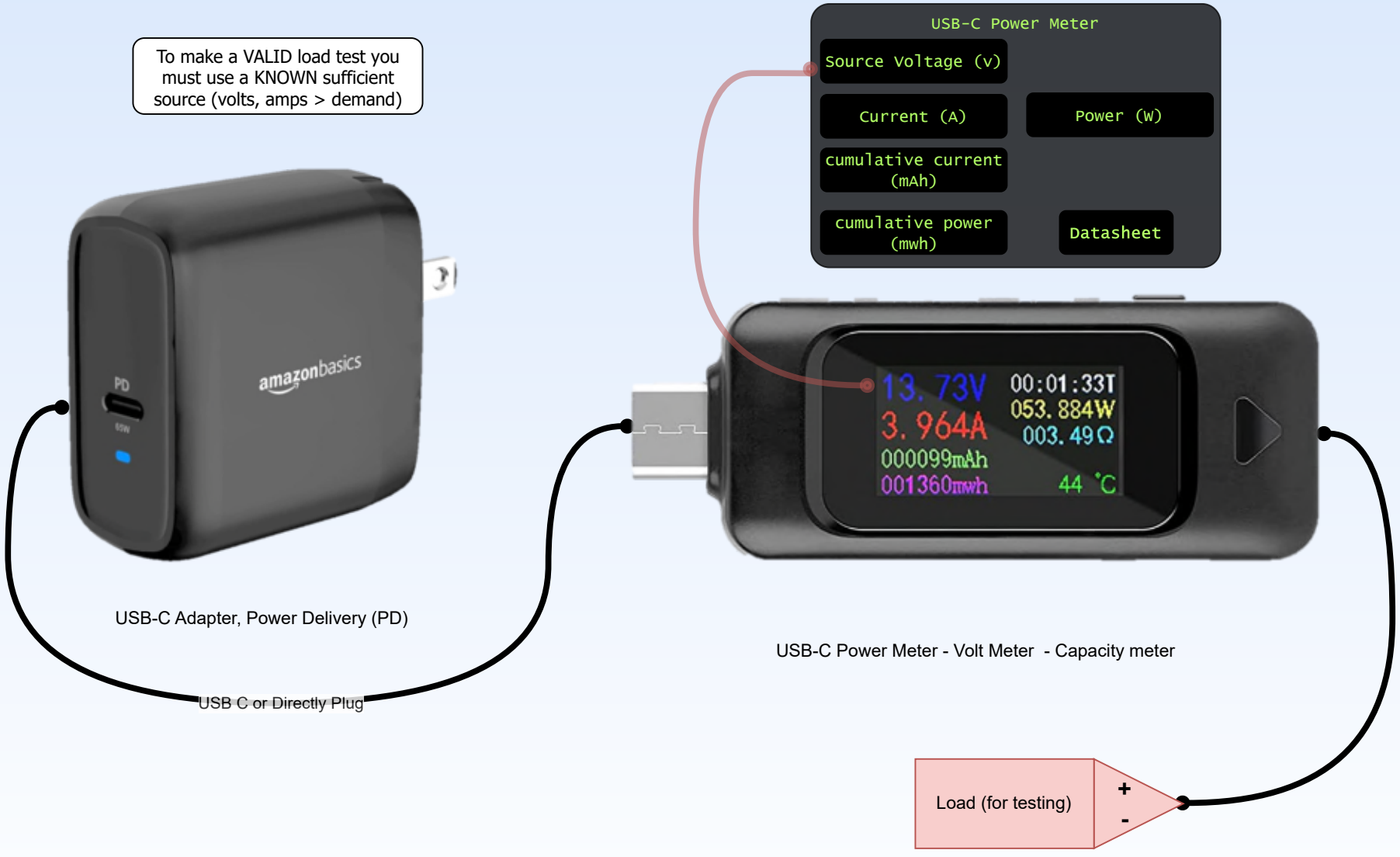

DC Power Meter (with aux power)

Input your power using:
DIN terminal
OR
Anderson connector

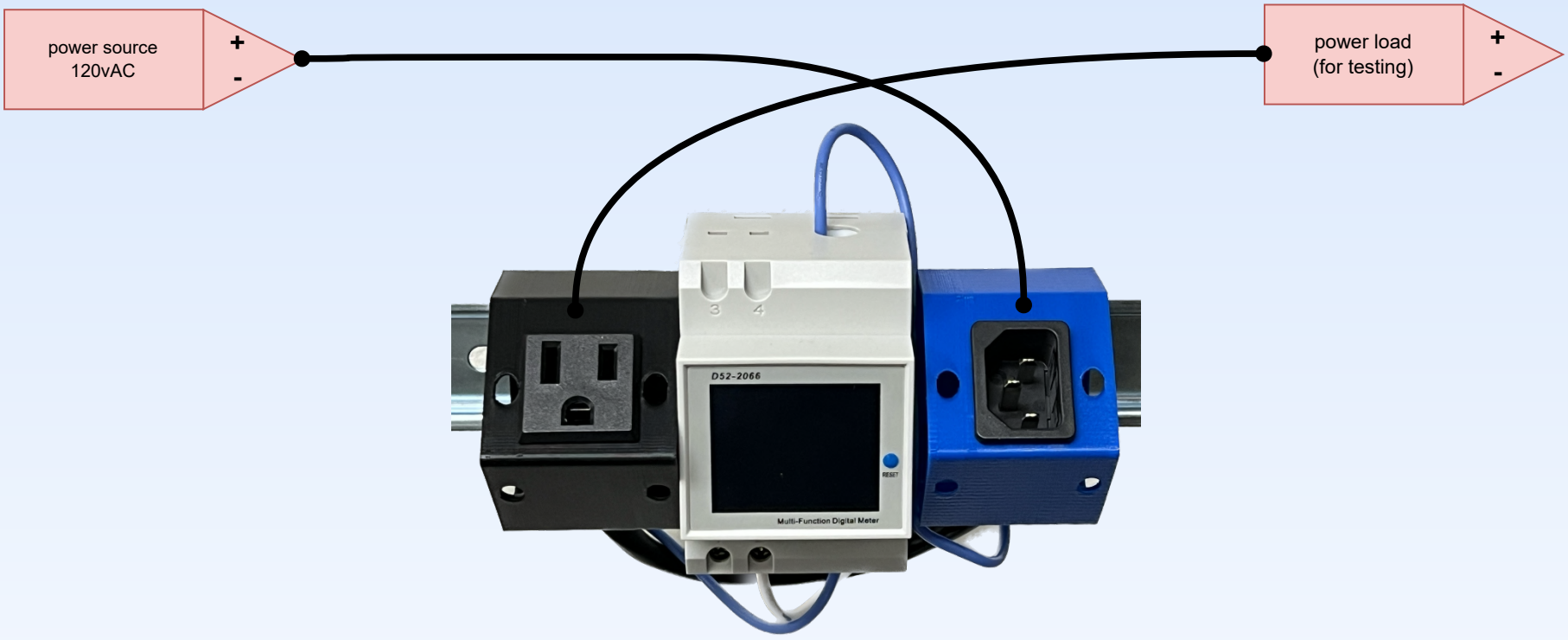
## Source Testing, with CBA



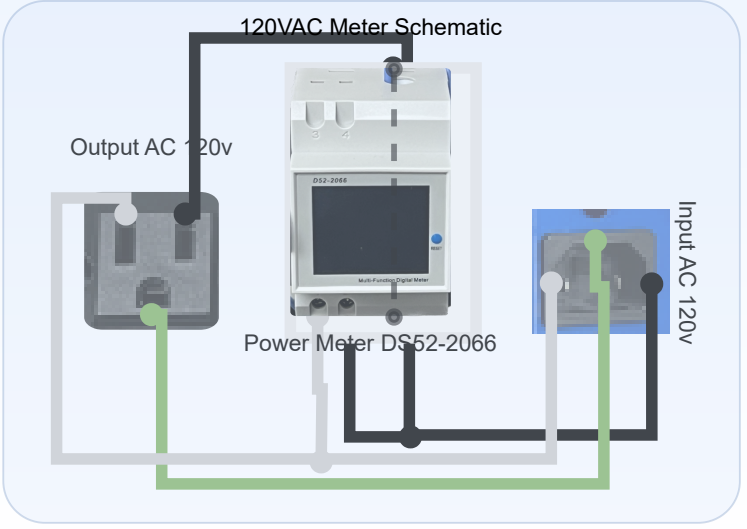
# Load Testing, USB-C



## Load Testing, with 120vAC




Power Meter with Input & Output 120vAC



# Power Bench: References

PDF

Diagrams

qr.page/g/3Z1AHENxlDy

PDF (this document)

qr.page/g/3m6dZ6n3utE

Draw.io (this document)

Icons

MXET icons library

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