



[dummy-load-sch.pdf](#)

ZHIYU ZPB30A1 60W dummy load

input voltage: 12V 0.5A (11-14V)

constant current: 0.20-9.99 A

- review <https://youtu.be/snROh2acybs>
- Reverse Engineering https://youtu.be/KYncNH8_m70
- 60W Dummy Load Mod 20mA to 999mA <https://youtu.be/K-7kgfbH-eI>

modes

hold run button at power on

Fun1 - dc load (continue working on voltage alarm)

Fun2 - battery test (stop load at specified voltage)

serial

115200 8n1

pins from bottom of the board upwards

G - GND

R - RX

T - TX

L - always low?

F - 50 Khz square wave

Vc - input voltage

3 byte output, first two bytes are BCD voltage (3.35V) and last one is status (1=ok, 0=under voltage alarm)

```
pi@rpi2 ~ $ microcom -s 115200 -p /dev/ttyUSB4 | od -An -t x1 -w3
04 35 01
*
04 36 01
04 35 01
*
04 36 01
*
04 35 01
*
04 36 01
04 35 01
```

replacement firmware

- https://github.com/ArduinoHannover/ZPB30A1_Firmware