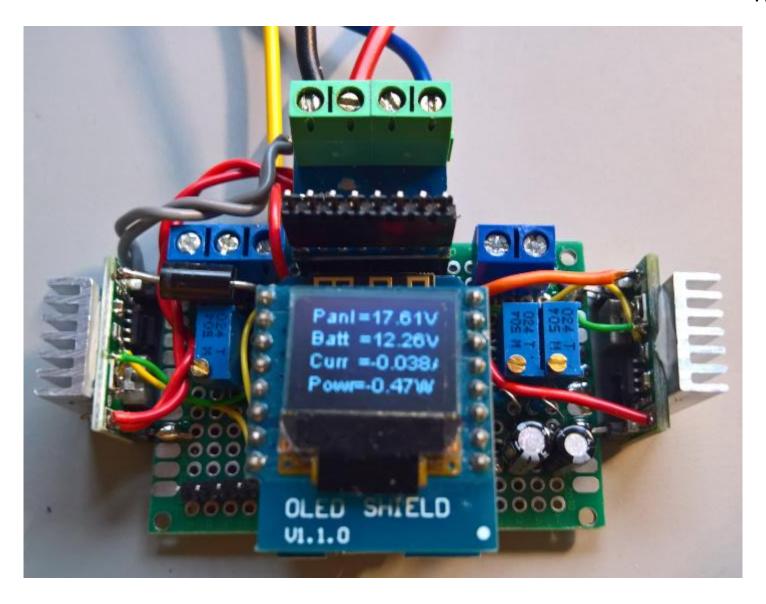
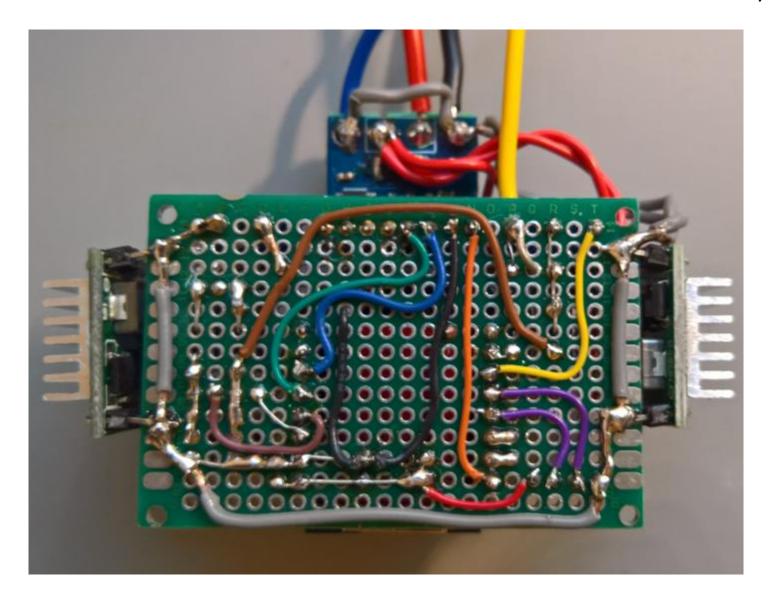
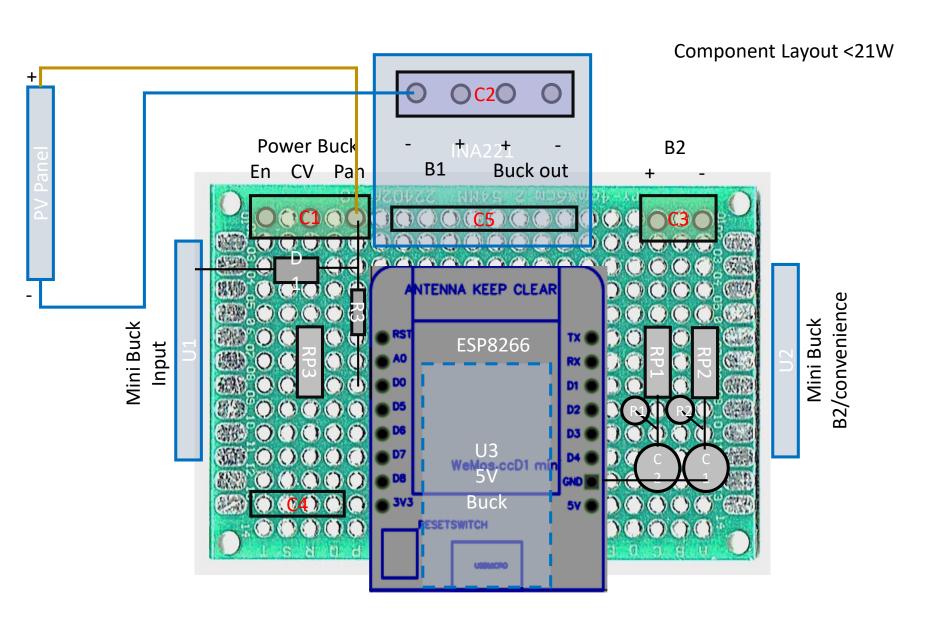


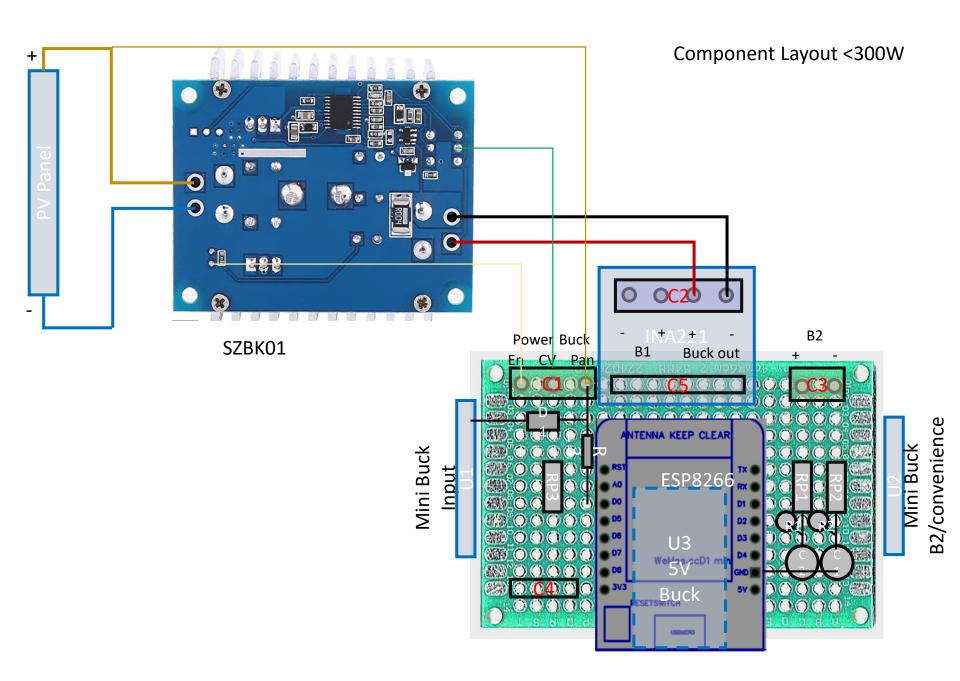
#### Prototype



### Prototype





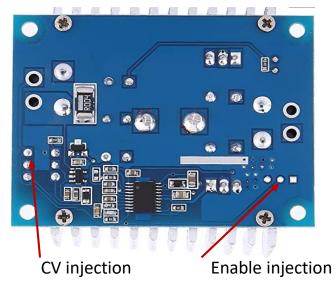


## SZBK07 300W **15A** 6-40V -> 1.2-36V

LM25116 synchronous chip FB=1,215V 350Khz progr.

No load current buck converter 40 mA
Low load current +MPPT + WiFi 34 mA
Efficiency @ 0,5W 45%
Efficiency @ 10 W 94%
Efficiency @ 25 W 96%
Efficiency @ 75 W 96%
Max current 1 A @ 22°C
Neutral injection PWM=250







# D-SUN **1A** 6-40V -> 1.2-36V

MP1584 asynchronous chip FB=0,8V 350Khz

No load current buck converter 0,1mA Low load current +MPPT + WiFi  $\sim$ 7mA  $_{\rm EN}$   $\circ$  Efficiency @ 0,5W 86%

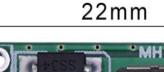
Efficiency @ 10 W 96%

Efficiency @ 15 W 94%

Max current 1 A @ 22°C

Neutral injection PWM=250

Convenience output e.g 8.5-12.6V for 3\*LiPo (11.6@230)



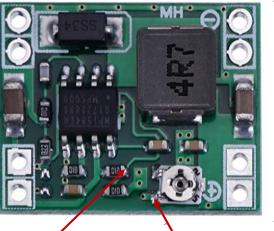
C4 100nF

sw

COMP

MP1584

FREQ



17mm

Enable injection

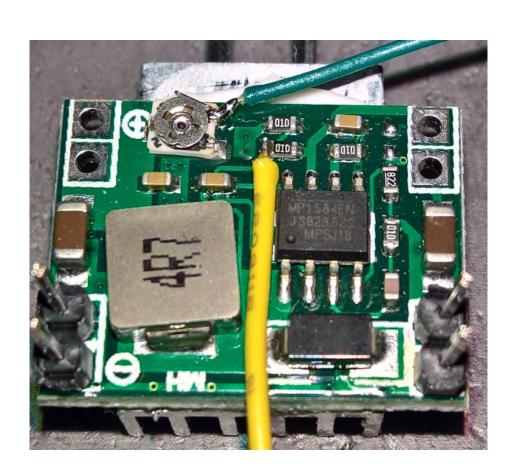
CV injection

| $\epsilon$           | δx       |           | 3x Lilon | X=Volt Y =PWM for Lead Acid                               |
|----------------------|----------|-----------|----------|---|
| PWM L                | _eadAcid | 4x LiFePo |          | A-VOICT -F WIVITOT LEad Acid                              |
| 0.00                 | 14.85    | 14.00     | 13.55    |   |
| 100.00               | 14.40    |           |          | 14.00   |
| 230.00               | 13.80    | 13.20     | 12.80    | 14.00   |
| 290.00               | 13.50    |           |          | 12.00   |
| 390.00               | 13.00    |           |          | 11.00   |
| 620.00               | 12.00    |           |          | 10.00   |
| 834.00               | 11.00    |           |          | 9.00  |
| 1020.00              | 10.12    | 9.50      | 9.20     | 0.00 200.00 400.00 600.00 800.00 1000.00 1200.00          |
| Tested max 1,5A.     |          |           |          | ● 6x LeadAcid ● 4x LiFePo ● 3x Lilon                      |
|                      |          |           |          | Linear (6x LeadAcid) Linear (4x LiFePo) Linear (3x Lilon) |
| Low-pass 6,8KΩ/330nF |          |           |          |   |
| Injection 82KΩ       |          |           |          |   |

≹R5 100kΩ

> ≹R4 200kΩ

≹R6 24.9kΩ



### **Preparation D-SUN**

Green wire = CV injection Yellow wire = Enable

Heat sink at the bottom
Pins soldered at 0V Input / Output