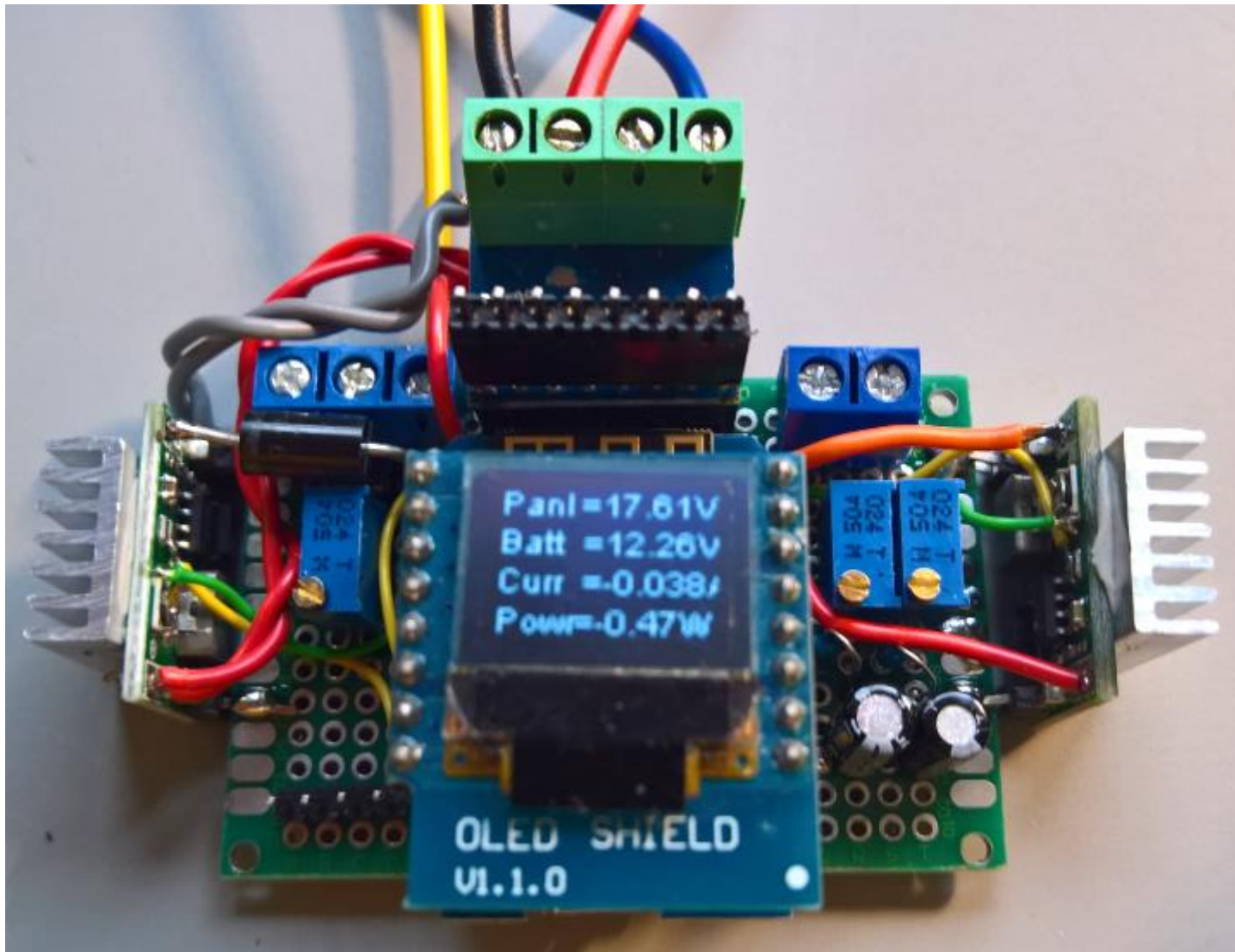
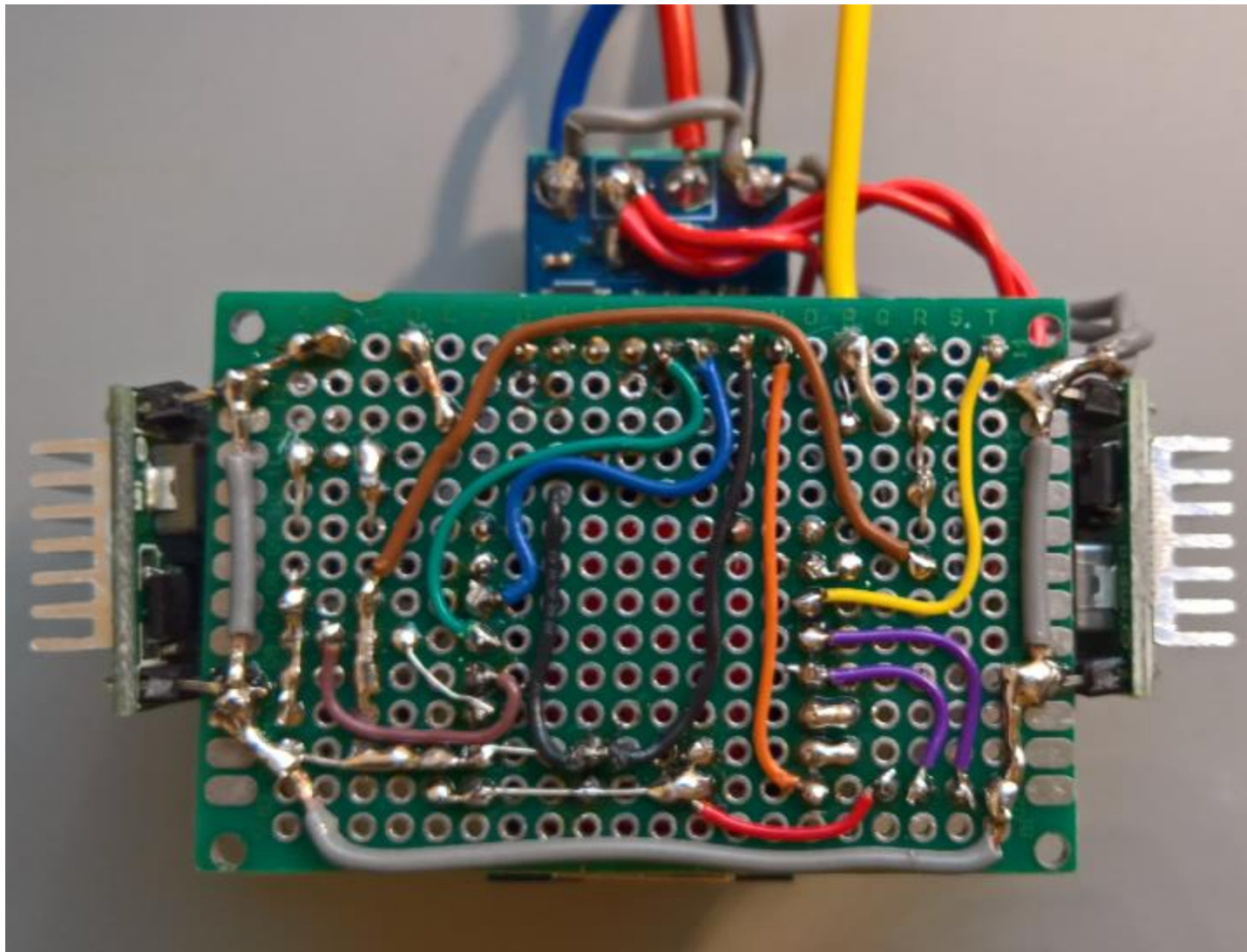
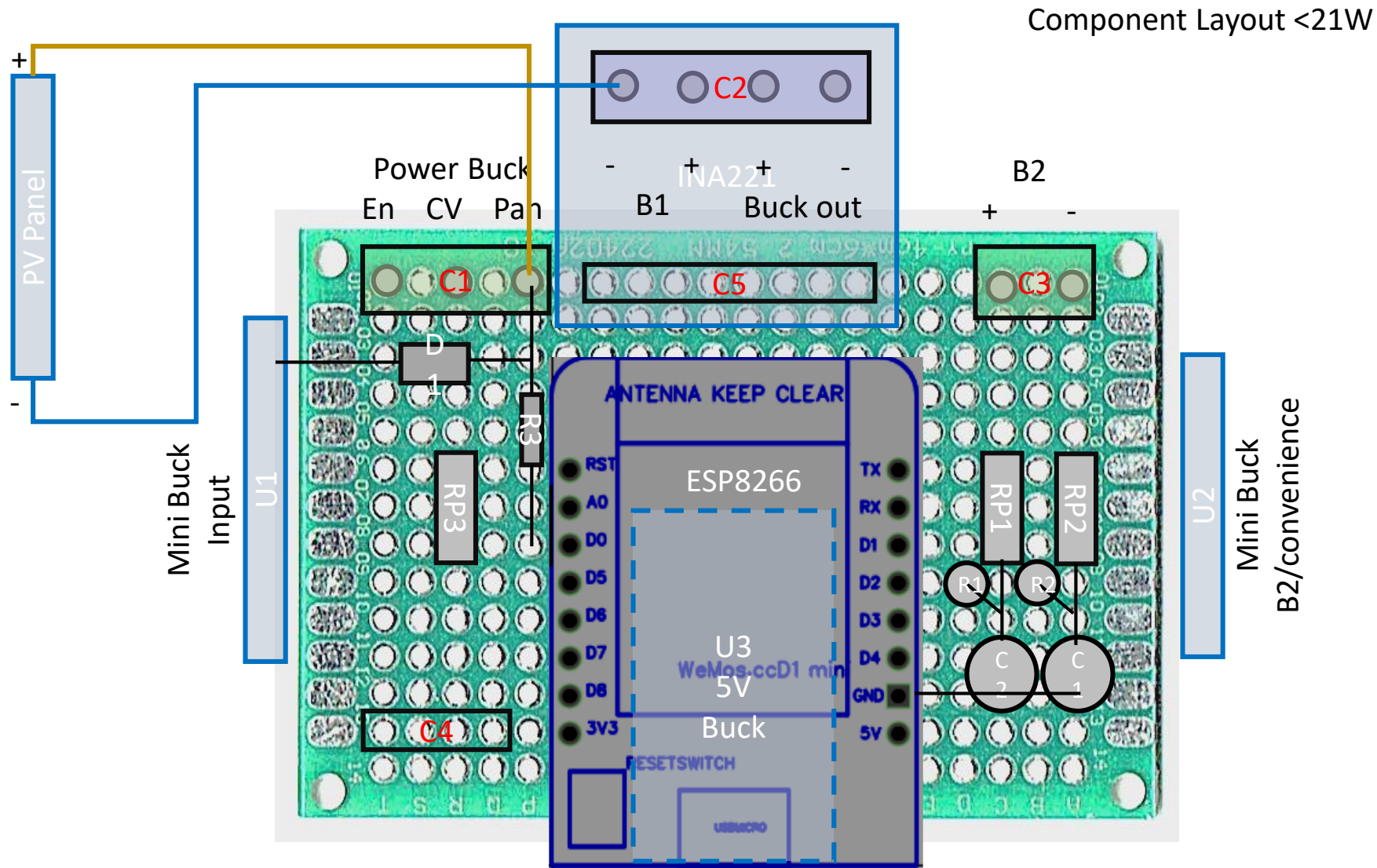


Prototype

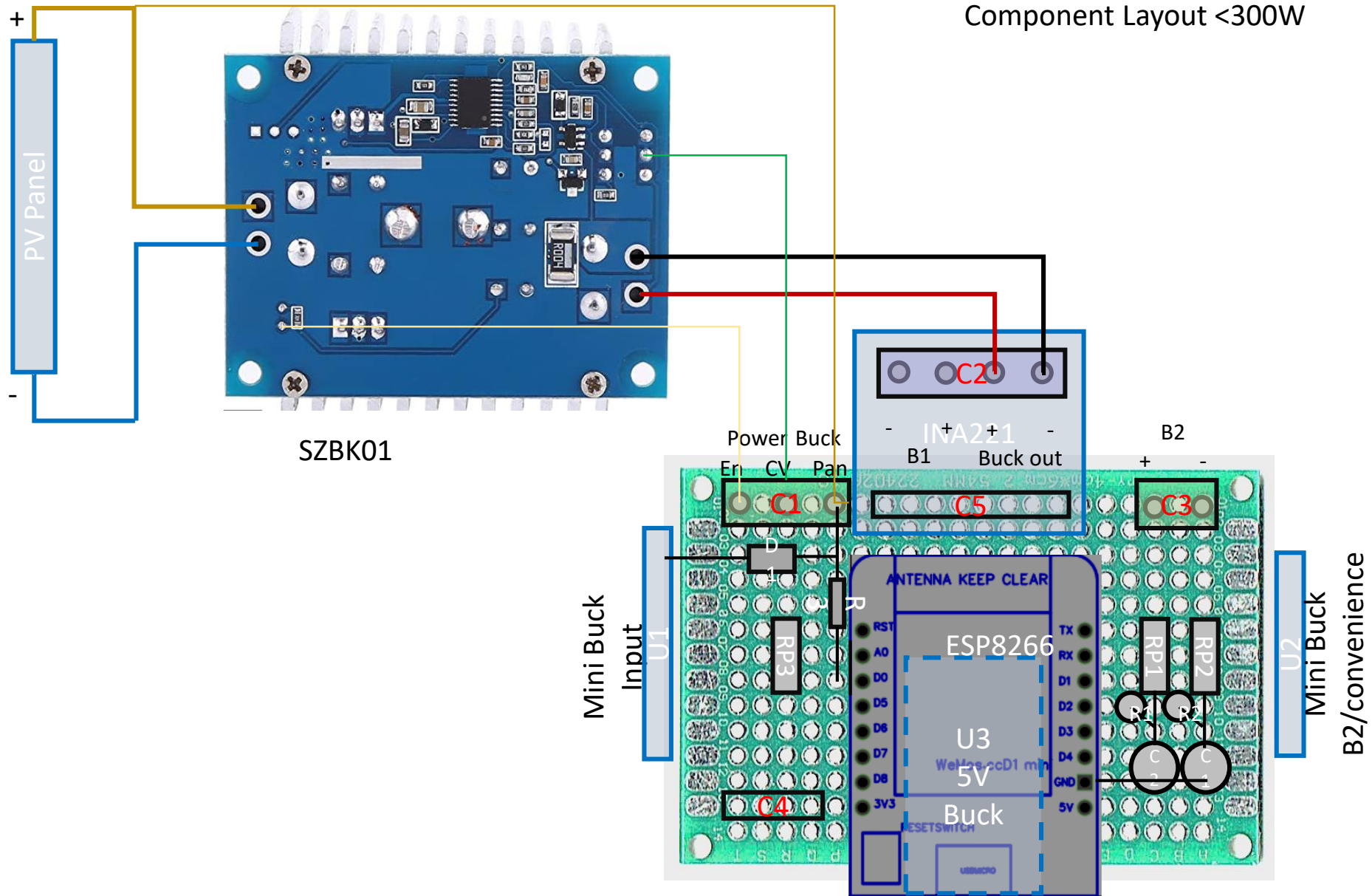


Prototype





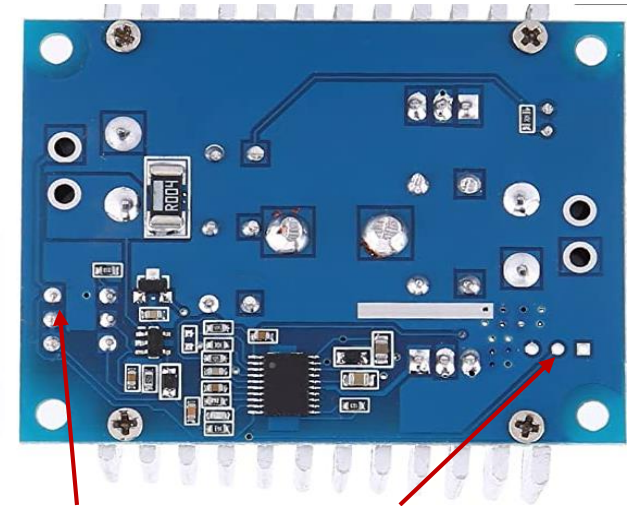
Component Layout <300W



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



CV injection

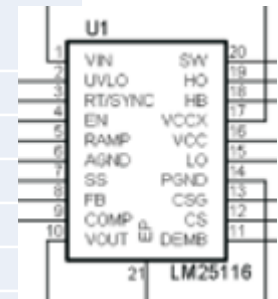
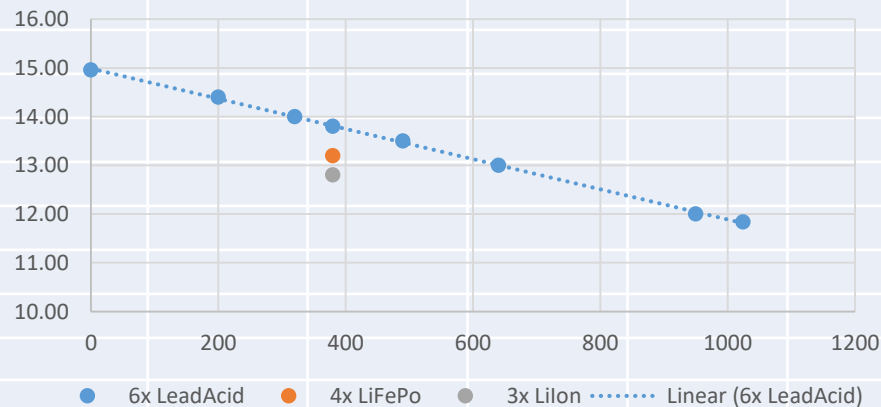
Enable injection

PWM	6x LeadAcid	4x LiFePo	3x Lilon
0	14.96		
200	14.40		
320	14.00		
380	13.80	13.20	12.80
490	13.50		
640	13.00		
950	12.00		
1024	11.84		

Tested 2A.

Low-pass 6,8KΩ/330nF
Injection 330KΩ

X=Volt Y =PWM for Lead Acid



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 ~7mA

Efficiency @ 0,5W 86%

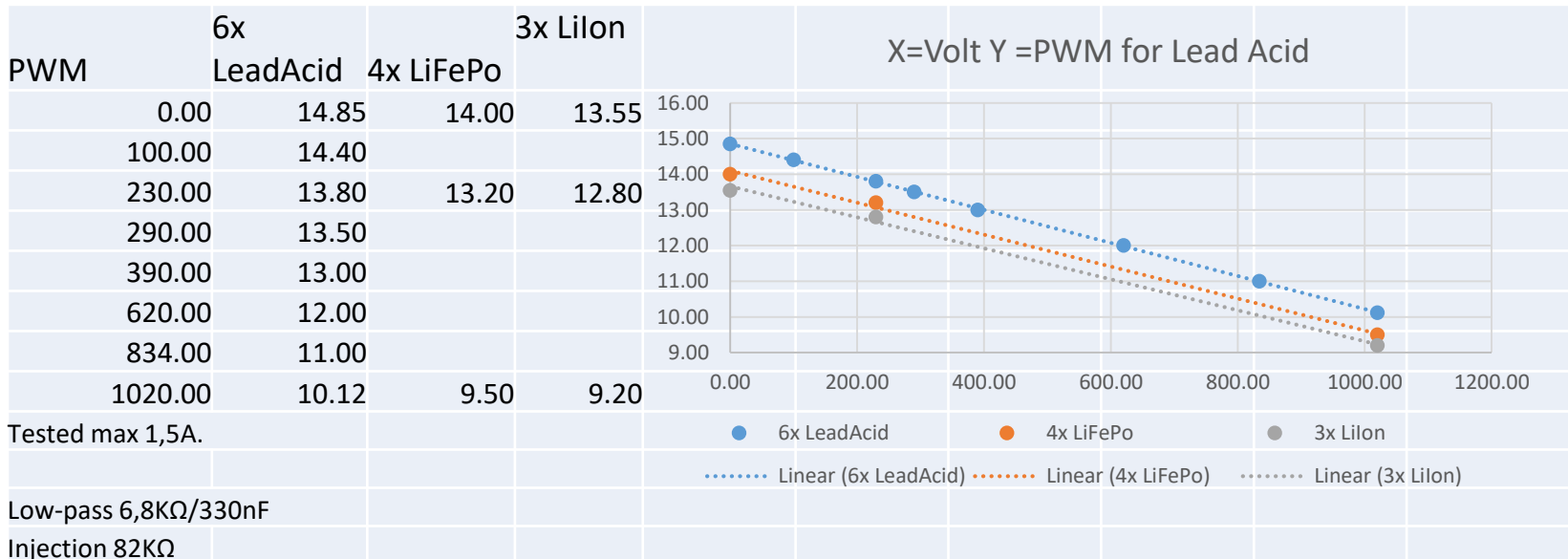
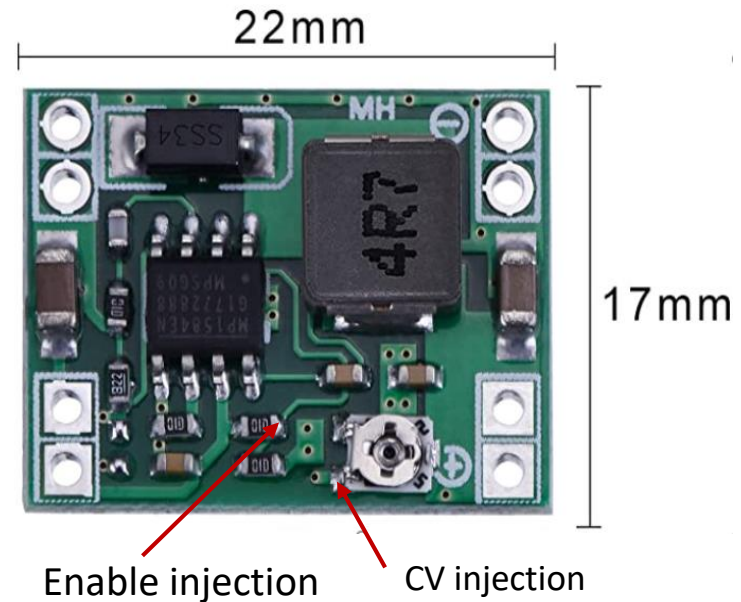
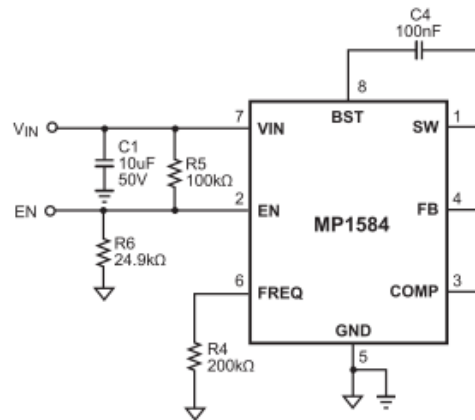
Efficiency @ 10 W 96%

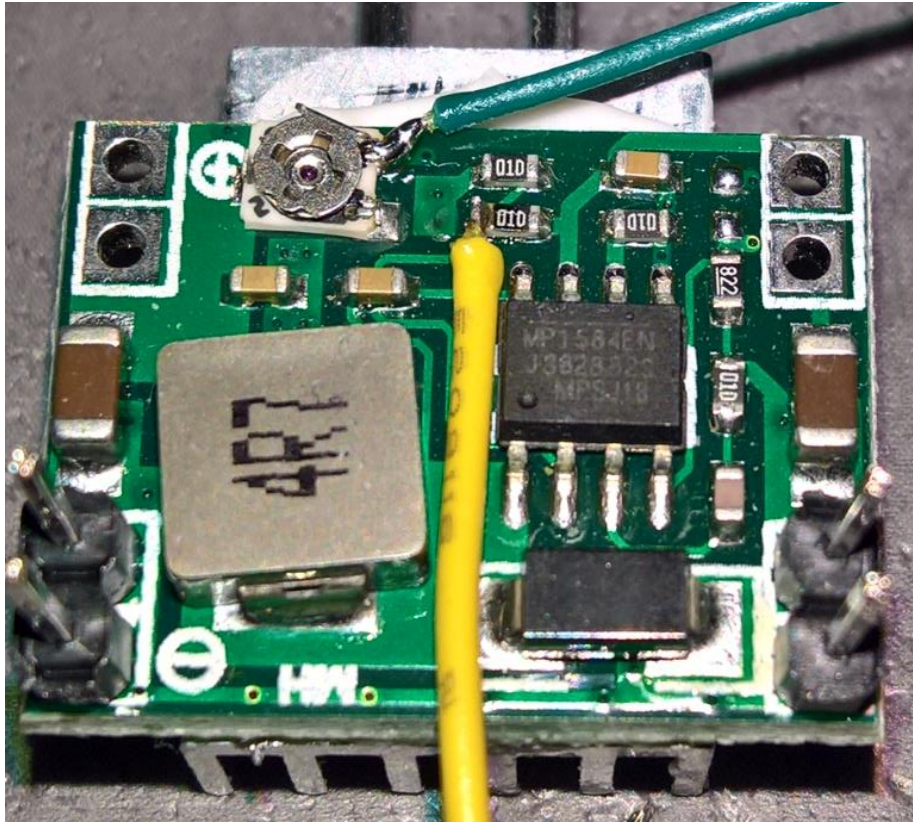
Efficiency @ 15 W 94%

Max current 1 A @ 22°C

Neutral injection PWM=250

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





Preparation D-SUN

Green wire = CV injection

Yellow wire = Enable

Heat sink at the bottom

Pins soldered at 0V Input / Output