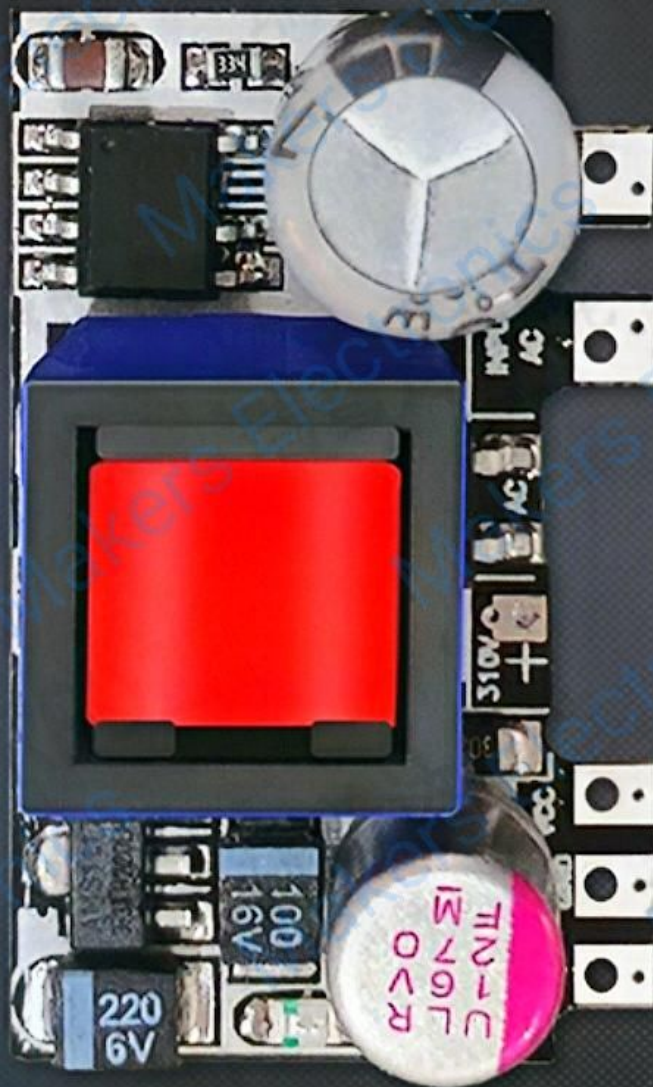


Accurate calculation, multiple tests, corresponding material selection

The product has undergone multiple tests



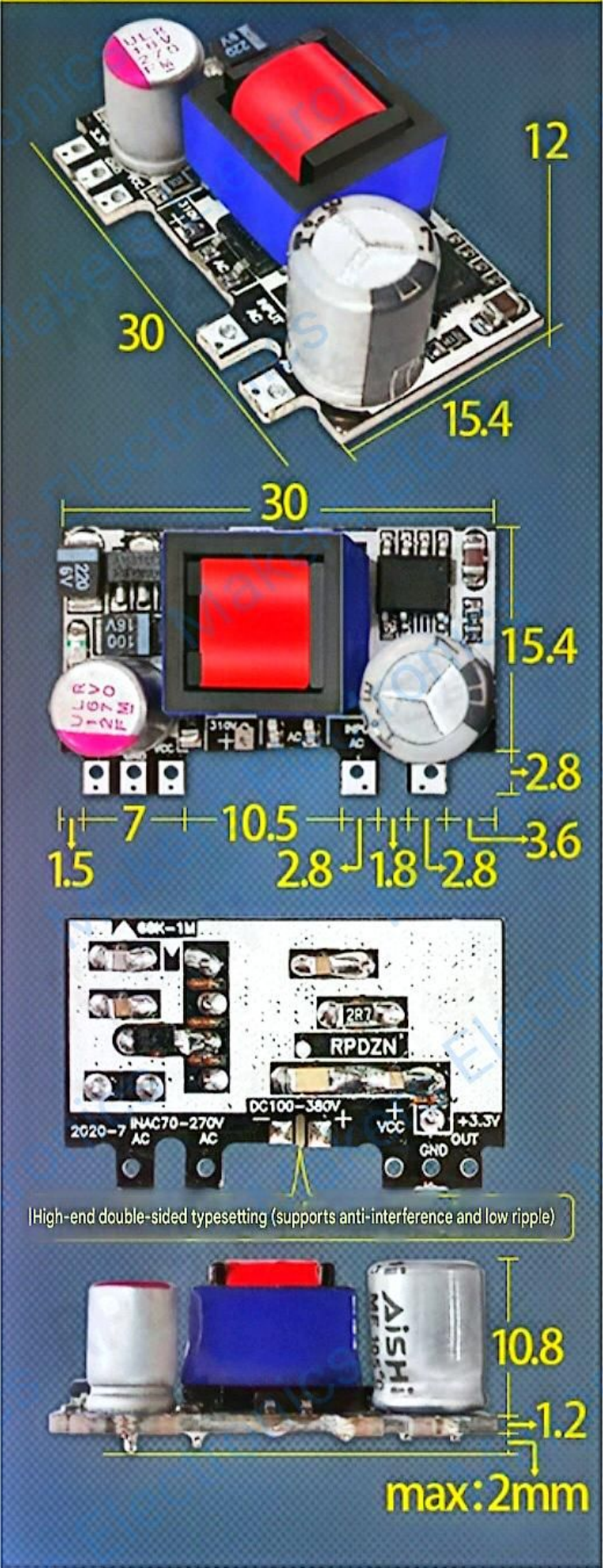
Engineers test layer by layer

- ✓ Engineers make preliminary designs and select materials for sample making.
- ✓ Test the voltage difference of each line in the gap, safe separation distance, copper thickness, radiation interference and other accurate data.
- ✓ Test and calculate transformer magnetic density, leakage inductance, inductance, copper paint and other data.
- ✓ Precise calculation of line width matching current and item-by-item inspection of line envelope.

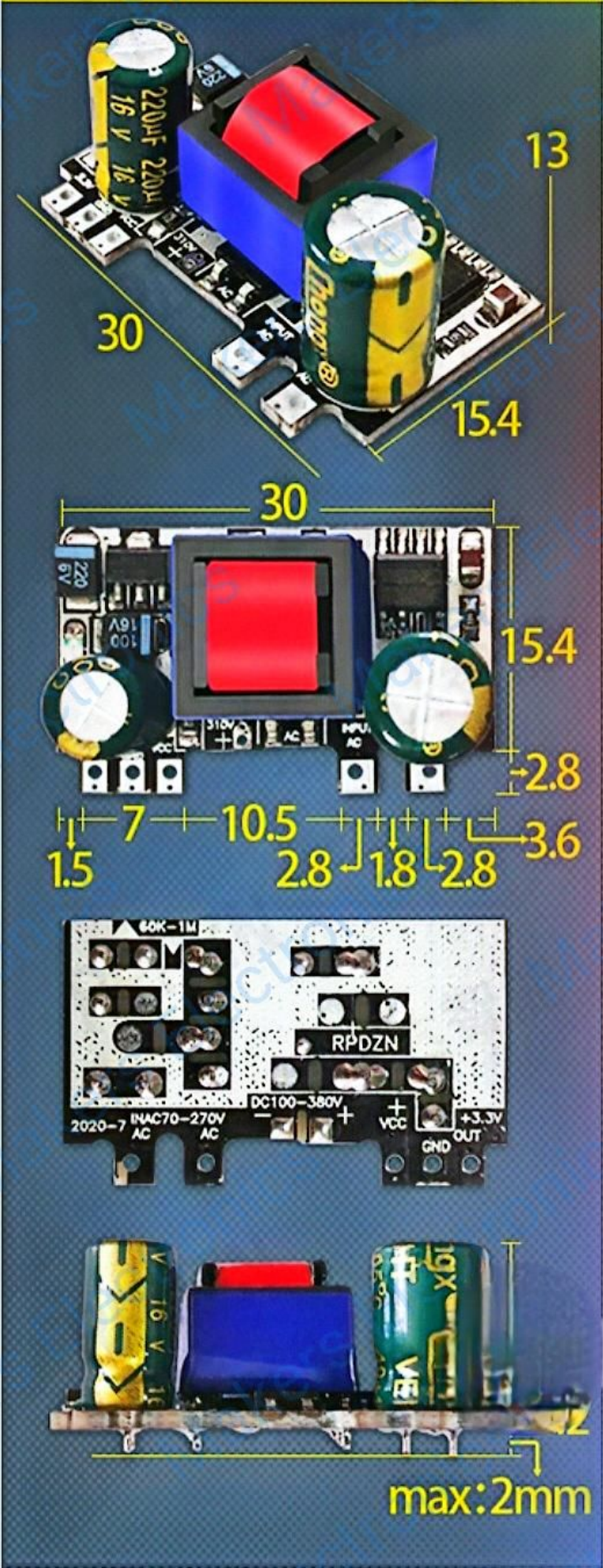
Kind tips

Copycat products often only focus on copying, using low-end or recycled refurbished parts to make high profits, without testing the data, resulting in data errors, and a short lifespan, unable to adapt to short-term market changes.

High-end version dimensions (unit: mm)

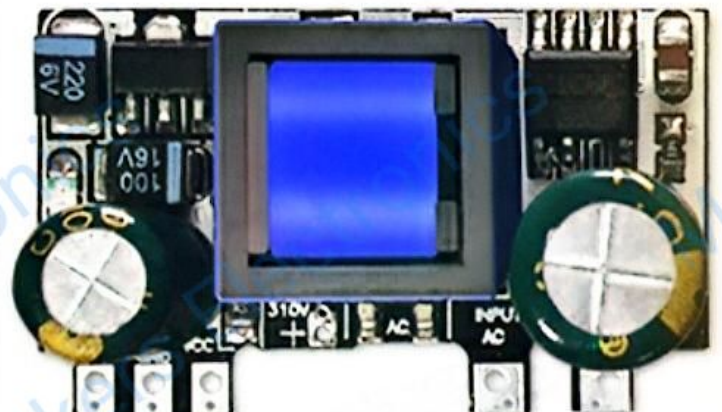
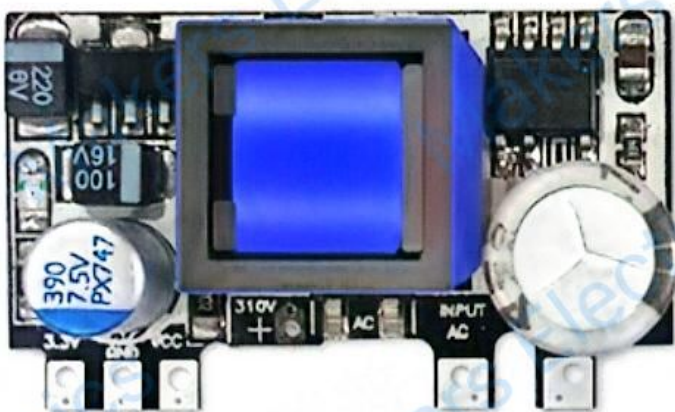
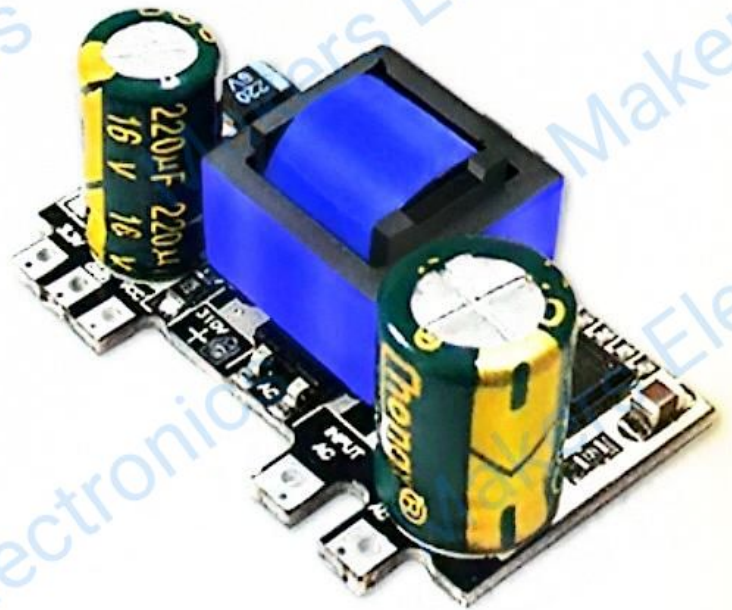


Standard version size (unit: mm)



3W dual output version real shot

3.3V5V700mA

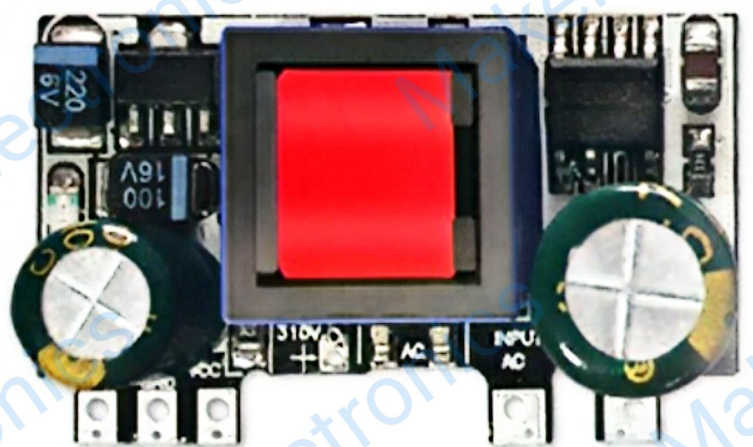
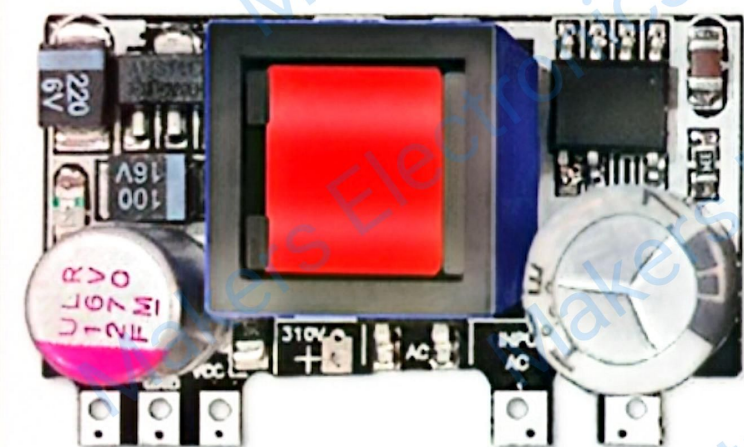
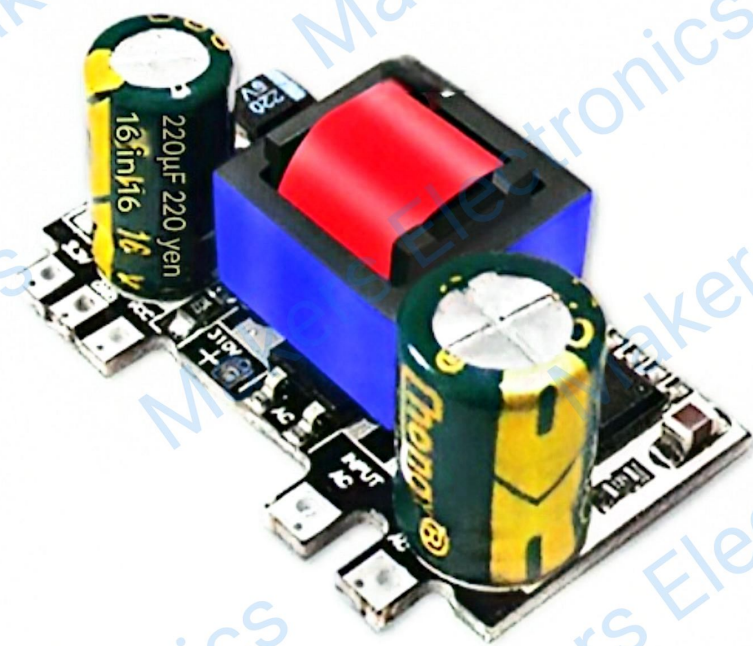
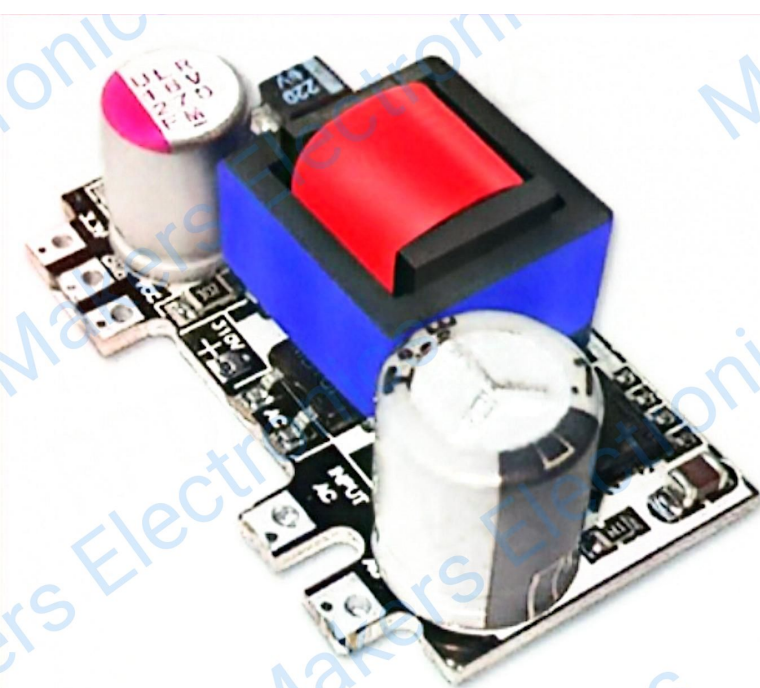


S3.3V5V700mA
RPD3W05E3V3S

Output: 5V700mA
3.3V600mA Total
power 3.5W

L3.3V5V700mA
RPD3W05E3V3L

Output: 5V700mA
3.3V300mA Total
power 3.5W



S3.3V12V300mA
RPD3W12E3V3S

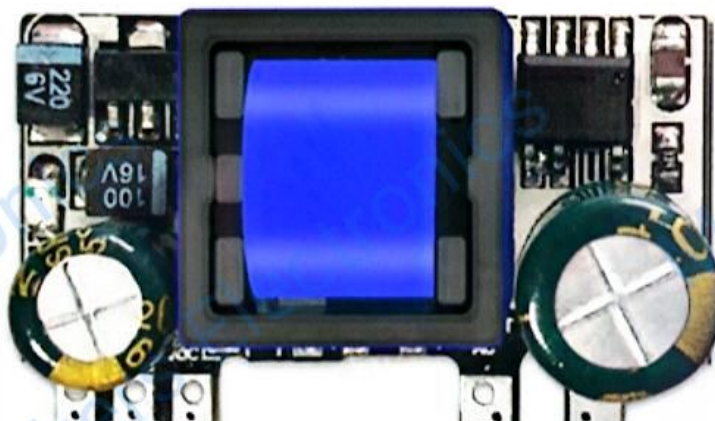
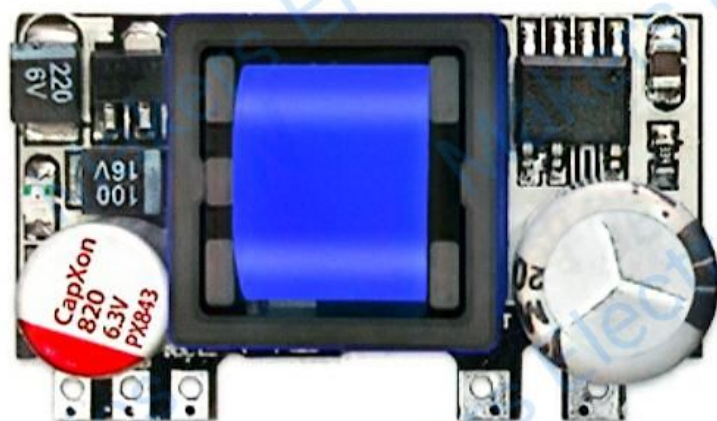
Output: 12V300mA
3.3V80mA Total
power 3.5W

L3.3V12V300mA
RPD3W12E3V3L

Output: 12V300mA
3.3V80mA Total
power 3.5W

5W dual output version real shot

3.3V5V1000mA

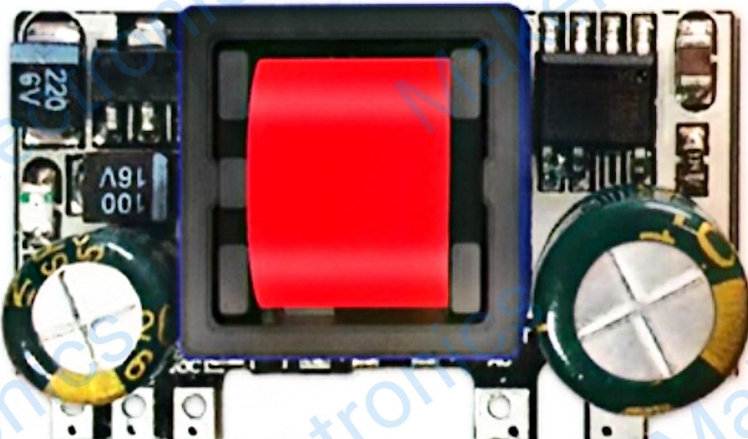
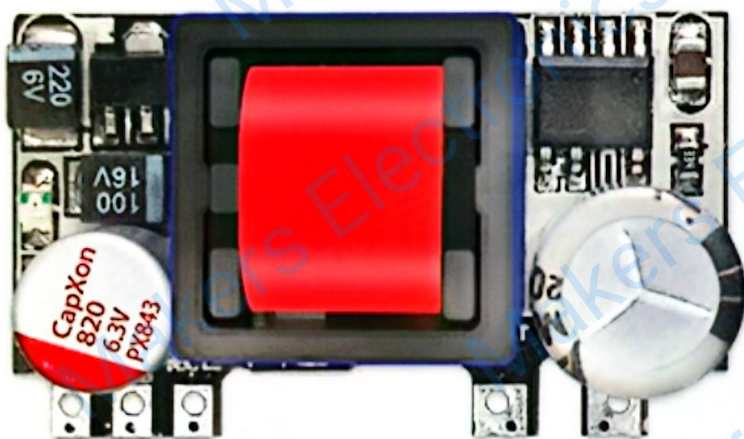
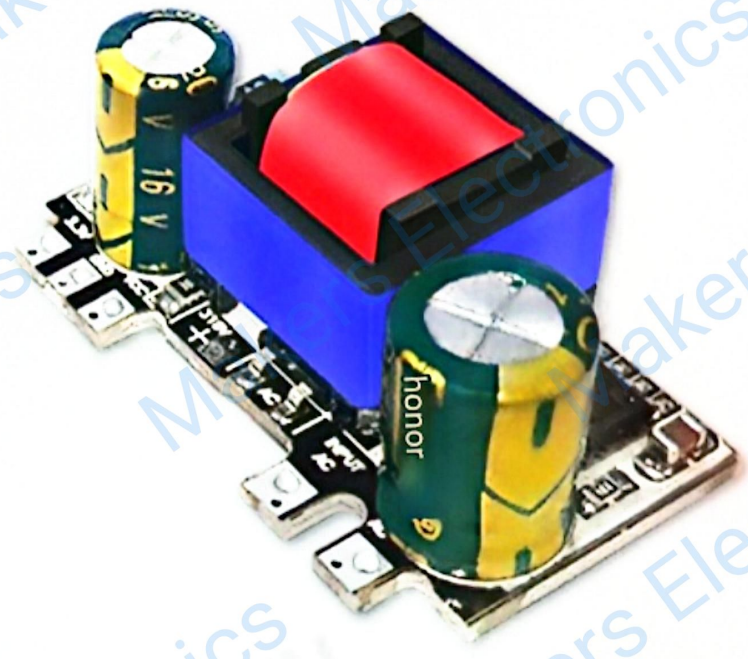
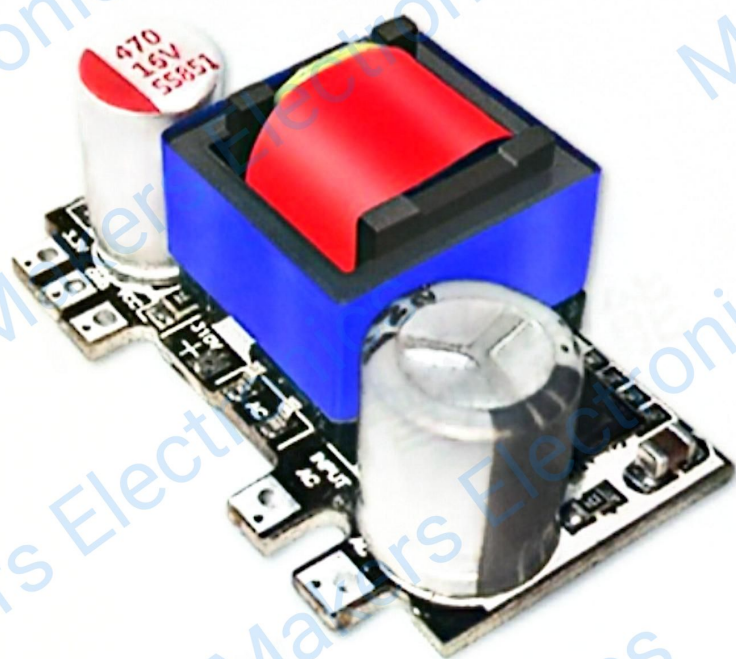


S3.3V5V1000mA
RPD5W05E3V3S

Output: 5V1000mA
3.3V600mA Total
power 5W

L3.3V5V1000mA
RPD5W05E3V3L

Output: 5V1000mA
3.3V300mA Total
power 5W



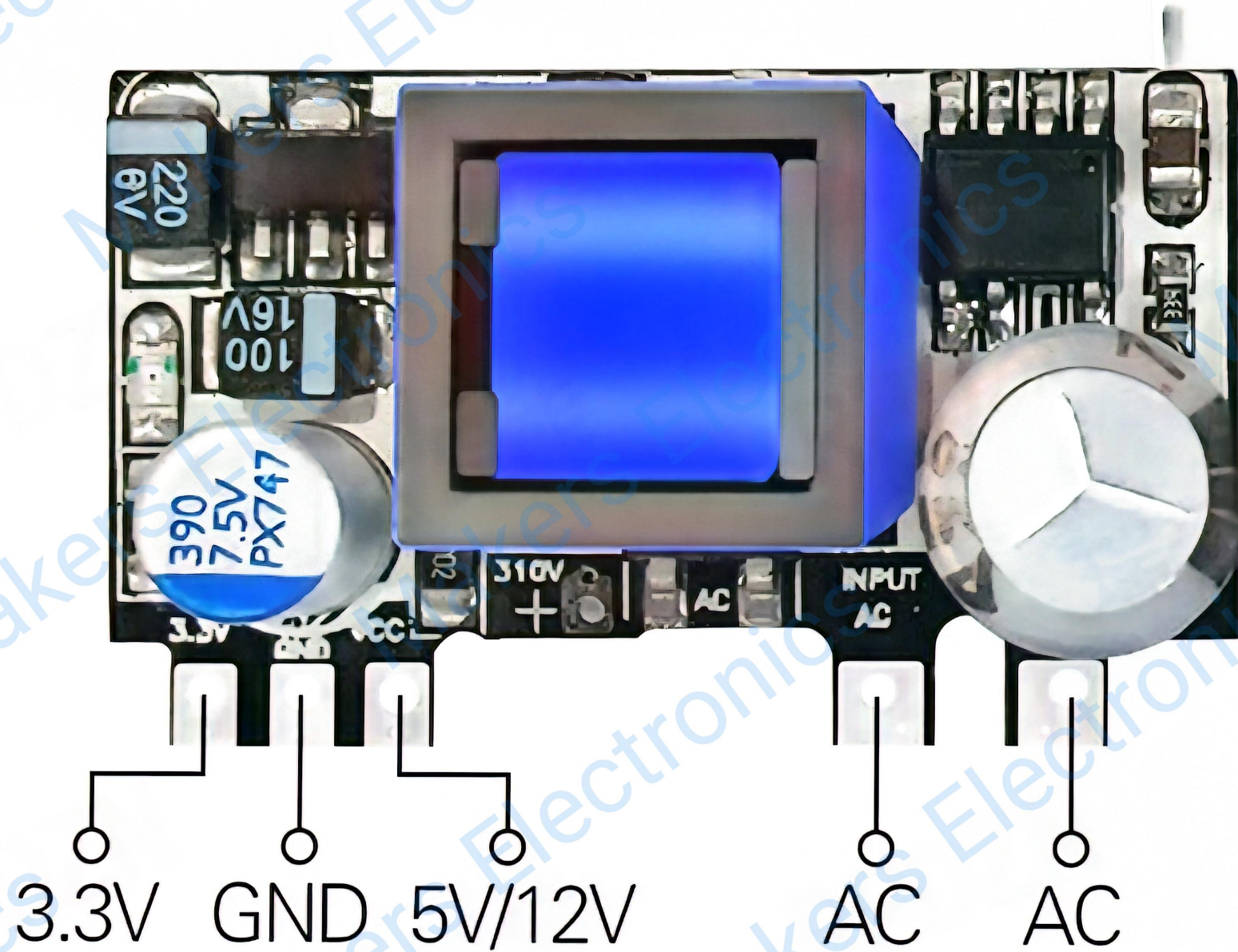
S3.3V12V450mA
RPD5W12E3V3S

Output: 12V450mA
3.3V80mA Total
power 5W

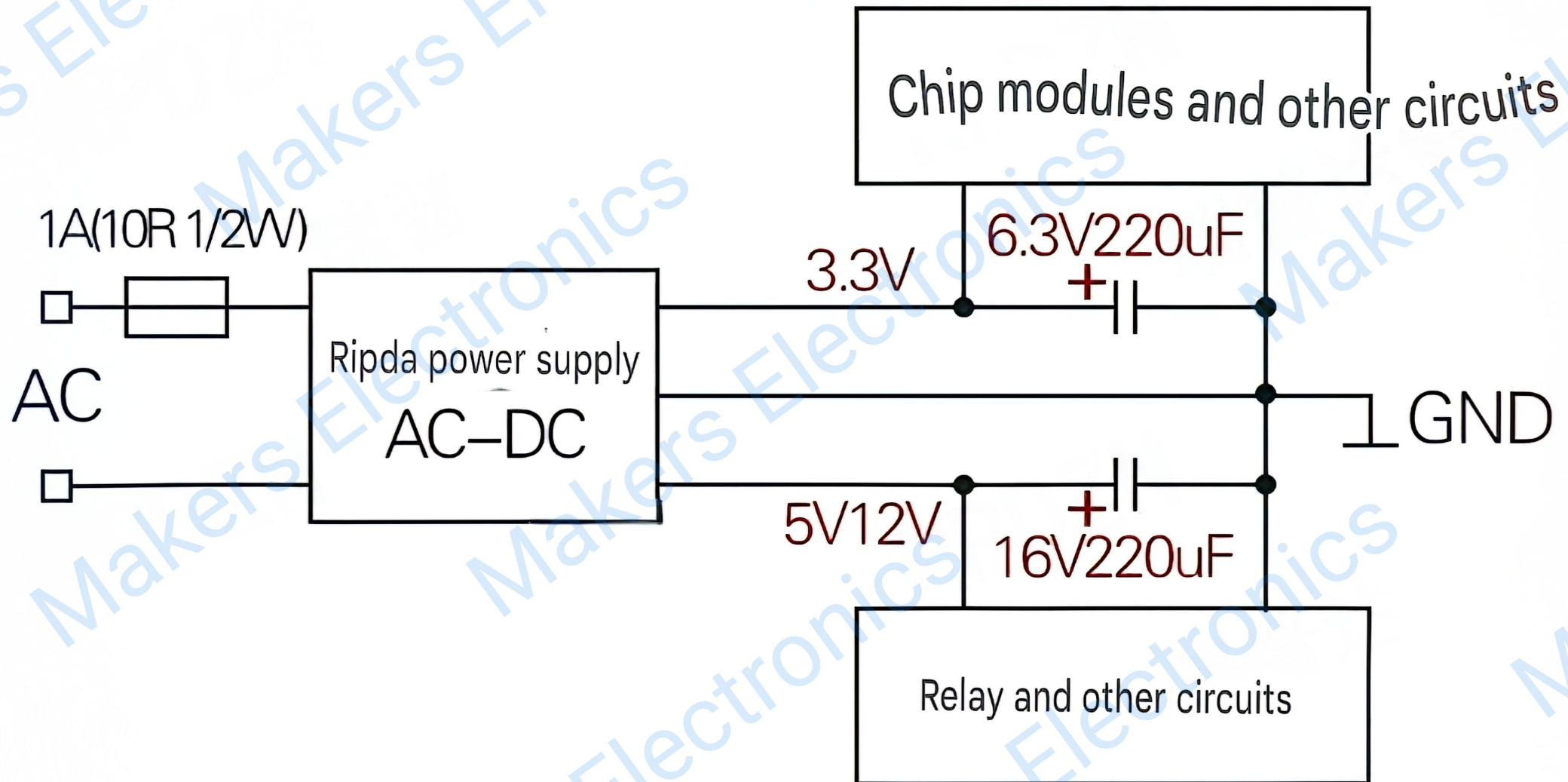
L3.3V12V450mA
RPD5W12E3V3L

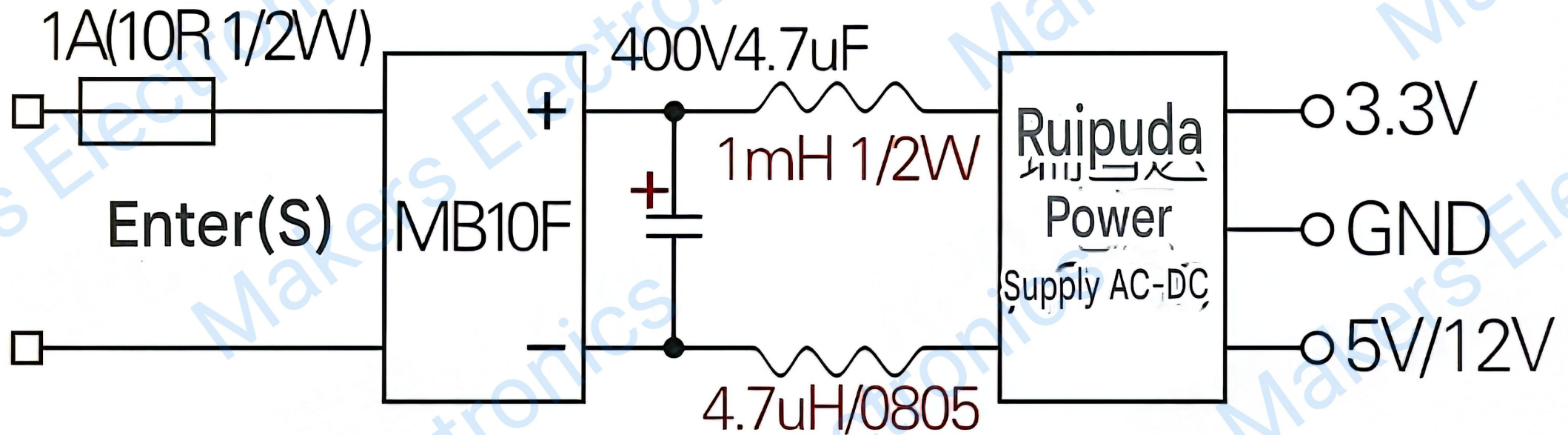
Output: 12V450mA
3.3V80mA Total
power 5W

Common circuit application examples:



Common circuit application examples:





Precautions for using power module

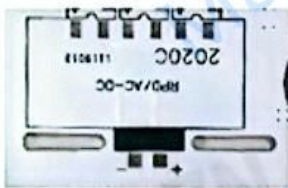
- Please do not put heavy pressure on the transformer to avoid breaking the coil.
- This power supply should be installed by directly plugging into the board as much as possible. There is no need to use bent pins for vertical installation. If you need to install it horizontally or on the board with straight pins, please be careful not to run the wires where it contacts the power module to avoid the pins scratching the wires and causing a short circuit.
- It manifests as no output or output voltage fluctuations. If this happens, please contact us immediately. The power supply is 100% tested before shipment. Usually, the problem is due to improper use.

Circuit board slotting and welding

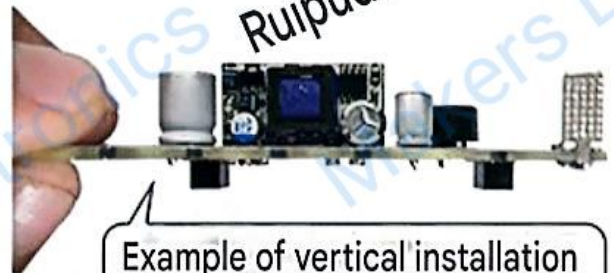
3W5W slot size is the same, customers can refer to the following according to the actual situation

Vertical installation method (Unit: mm)

3W5W dual voltage slotting



Physical picture of circuit board slotting

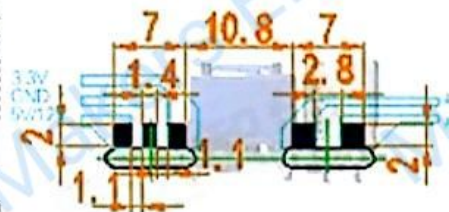


Please slot the circuit board according to the dimensions shown in the figure above. The slot dimensions for 3W and 5W are the same.

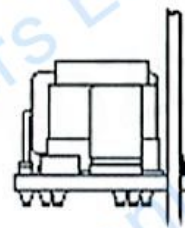
Pad size Reverse view



Actual picture of slotting and welding



The pad is located on the reverse side of the board. To increase the pad strength, the line should be as wide as possible.

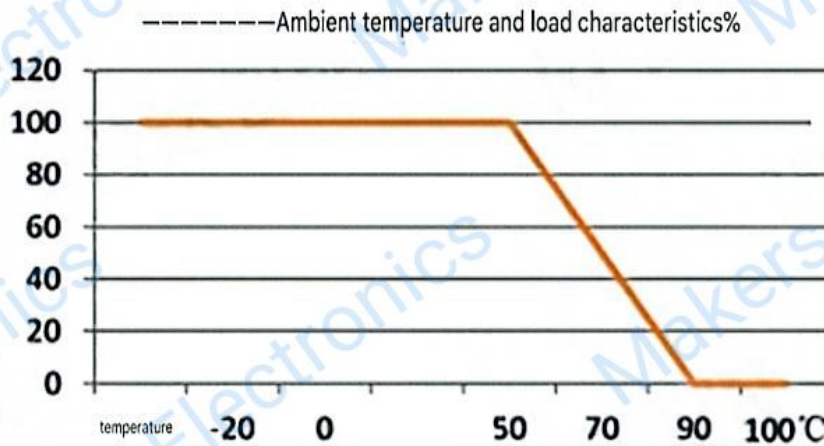


Welding point location

Do not arrange circuits under the power module to avoid short circuits.

Load characteristic curve

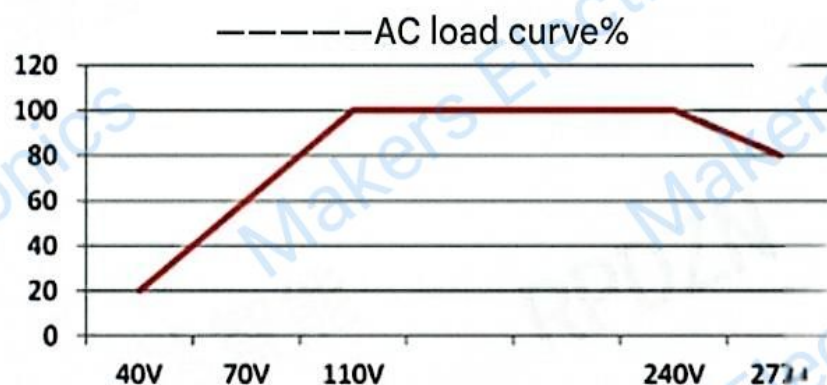
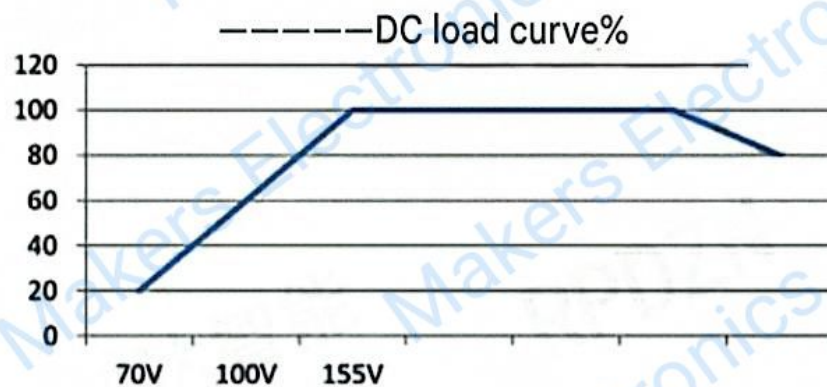
Relationship between ambient temperature and load:

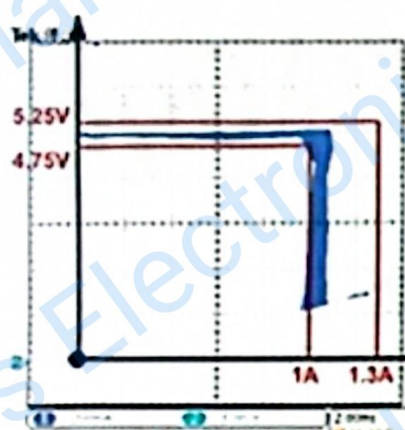


NOTE

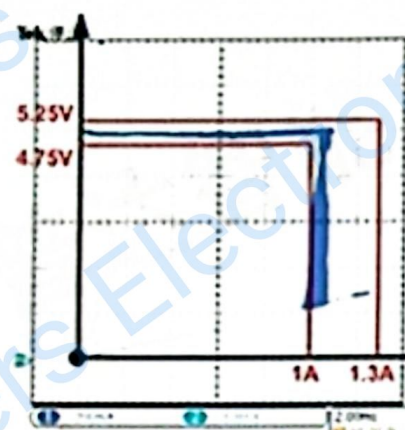
- When the ambient temperature is below 50°C, 100% load current is allowed to operate, 50% at 70°C, and unavailable at above 90°C. Over-temperature protection is mandatory at 105°C.
- When the ambient temperature is below 50°C and the load current is less than 70% of the full load, it can operate continuously for 24 hours a day. The service life of the advanced model is more than 5 years, and the service life of the ordinary model is more than 1 year.
- When the ambient temperature is below 50°C and the load current is less than 50% of the full load, the life of the advanced model is greater than 10 years, and the life of the standard model is greater than 2 years, assuming 24-hour continuous operation. The life of the advanced model is approximately 20 years if used intermittently.

Working voltage range and load characteristics:

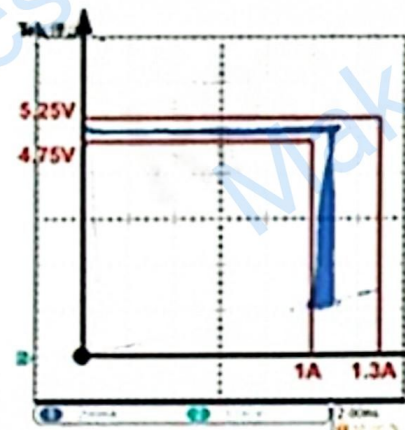




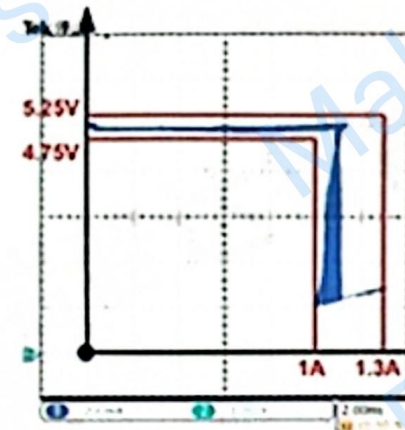
Vin=90Vac/60Hz



Vin=115Vac/60Hz

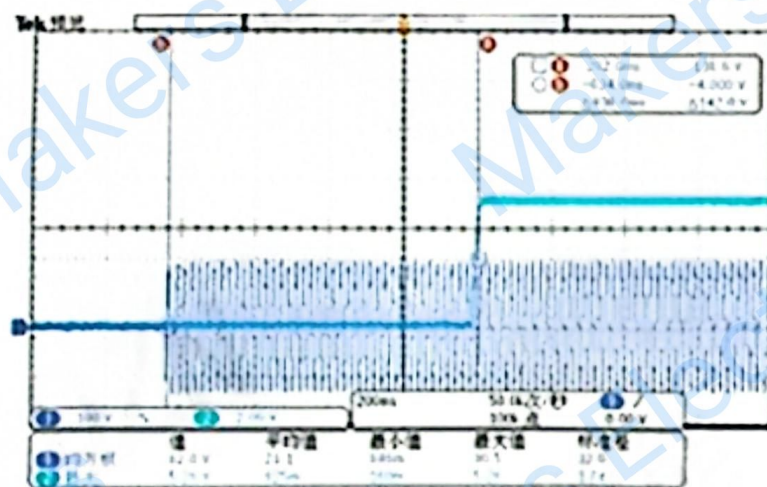


Vin=230Vac/50Hz

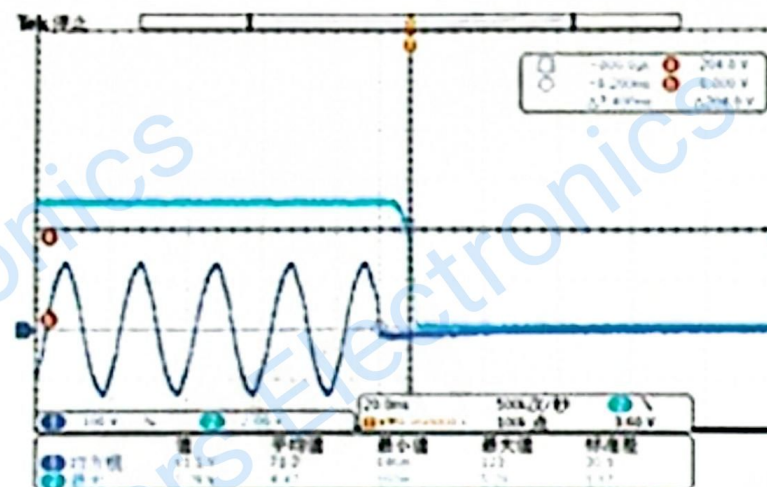


Vin=264Vac/50Hz

Start time:

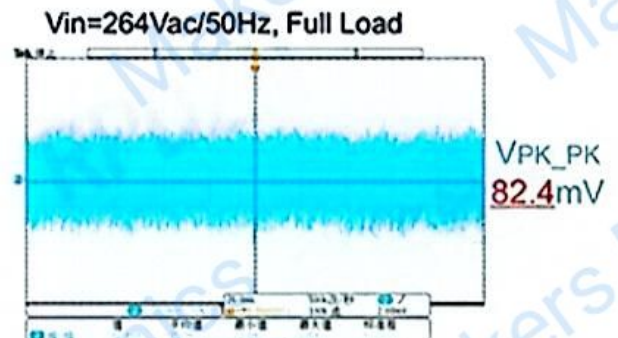
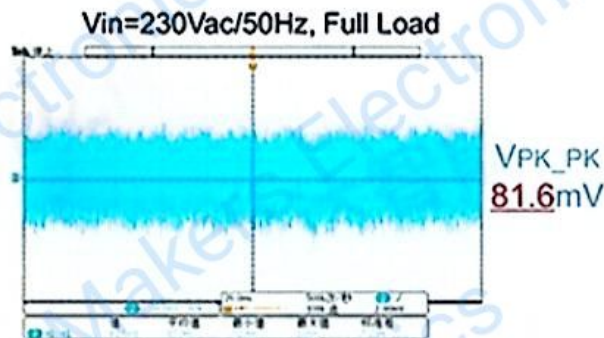
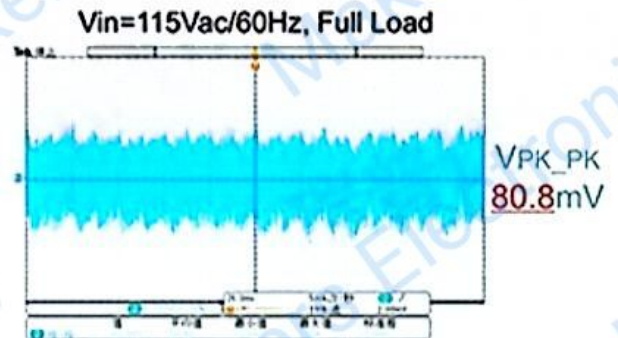
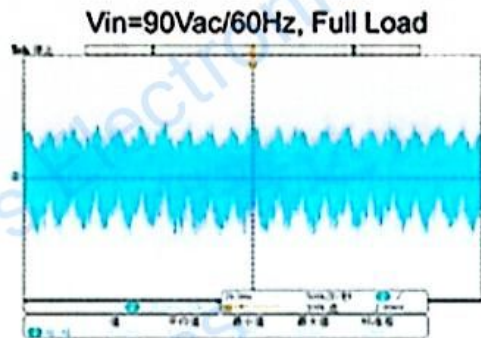


$T_{\text{Turn-on Delay}} = \underline{0.836\text{S}}$
90Vac/60Hz, Full Load



$T_{\text{Hold up}} = \underline{7.400\text{mS}}$
90Vac/60Hz, Full Load

Ripple and Noise:



Load Regulation and Rise Time:

