Hi everyone!

I am very happy to introduce the SaV64!

[img]http://www.hookturn.com/images/SaV64Logo.png[/img]

The SaV64 was designed and created in collaboration with e5frog, based on his OVG64 over voltage protector. It uses an over voltage protection controller to allow you to safely use your original Commodore power supply or an alternative power source with your Commodore computers.

[url=http://postimg.org/image/cutqaq7yr/][img]http://s21.postimg.org/cutqaq7yr/20150822\_090353.jpg[/img][/url]

Here’s the complete list of features:

[list]- Protect your Commodore 64(C/G/GS/Aldi), Commodore VIC-20 CR, or Plus/4 (with an adapter) from overvoltage on the 5VDC line.

- 5VDC and 9VAC Barrel connectors to allow easy use of alternative power sources. 5VDC barrel input is also protected from overvoltage.

- Use an external 5VDC power source and continue using your Commodore power supply for 9VAC even when its 5VDC has failed.

- Designed to handle 3 Amps in order to protect and power your system.

- High quality relay that disconnects both DC and AC lines in the case of an overvoltage condition.

- Dual color LED indicating the 5VDC status: Normal (Green) or Tripped (Red)

- Can be reset with the recessed reset button or by unplugging the power source.

- LED indicator shows when voltage is safe or tripped.

- Four possible trip point settings to customize the protection to your system.

- A high quality aluminum enclosure that will be customized at the factory to precisely match the SaV64’s connectors. The case is quite small at around 2.5 Inches Wide by 2.8 Inches Deep and 1.5 Inches tall.

- 3M Rubber Feet and a professionally printed SaV64 logo are also included to complete the device.

- The output cable can be routed through the same end as the inputs or out the back of the device. To accommodate either configuration, this is the only opening that is not pre-drilled.[/list]

Here are images of the prototype device. Please remember that this is a prototype so it has some cosmetic and other issues. I drilled the holes for the prototype so they are not exactly straight and you can see the aluminum on the edges of the holes. The factory cut holes will be properly cut and the same anodized black as the rest of the case. The LED will be lower and the reset switch will be closer to the outside of the case for easier access.

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As you can see in the images, I have powered the C64 using the 5VDC from my benchtop power supply along with a 9VAC adapter plugged into the barrel connector.

I am taking pre-orders for the kits now! There are five SMD components but the rest of the device is through-hole soldering. I will pre-attach the SMD components to the PCB for anyone who is not capable of doing those components themselves. Please specify that you need this done when you pre-order.

Here are the costs:

$55.00 - Fully assembled, ready to use device.

$42.50 – One complete kit. Everything you need to assemble one SaV64. There are two barrel connector options: 2.0x6.3mm or 2.5x6.3mm. You can get two of the same or one of each.

$1 – Each additional foot (30cm) of 4-Conductor output wire. The kit will come with 20 Inches (~50cm) of output wire. That will give you more than 1ft of cable between the SaV64 and your computer but you can order extra length at this price if you like. This will add a little extra weight to the package and may affect shipping costs.

Shipping Notice: Each kit is about 8 Ounces. Shipping a single kit to many countries will cost around $14.40. Please send me your mailing address via PM along with the number of kits you want so I can get you a good shipping quote. I am willing to ship multiple user’s kits to a single person who can distribute them, which might save money. Again, contact me if you want to do something like this.

Shipping within the USA is $5.25 for a single kit. I might be able to get two kits into a Small Flat Rate box for the same price but I won't know until I receive the components.

This kit was created with quality in mind so I did not skimp on the components. Higher quality components cost more but I fully expect the SaV64 to be a robust and reliable device for years to come. :)

Pre-orders will be open at least one month. I will only accept PayPal Gift for payment. I may make exceptions if this option is not available in your region. I hope I’ve earned the trust of the members of the community through my years of interaction and also the Final Cartridge III+ project last year.

I will update this thread through each step of the process. I expect to begin shipping kits within two months. I wish I didn’t have to wait so long but the pre-order payments are needed before I can order parts.

I’m more than happy to answer any questions you have!

I'd like to thank penfold42 for his early input and send a huge thanks to e5frog for all his work on this project. I could not have done it without him!

Heather