PSA and ACA pedal power and daisy-chaining

by **Laurie** » 19 Mar 2014, 03:57

I thought I'd pull all this together in one place and make it sticky. With thanks to all who contributed to the discussion.

Power-supply overview:

PSA power supplies give out 9.6VDC regulated, which means the output voltage is "clamped" at 9.6VDC and does not vary. It remains at 9.6VDC or some very close voltage under all load conditions. Regulated supplies like the Boss PSA, the one-spot, and a regulated 9VDC output from something like a voodoo labs supply are a good choice to use for PSA power, however, there have been reports of added digital noise from cheaper switched-mode supplies. *When the term PSA is used in the pedal power scenarios below it means a power supply with an output between 9VDC and 9.6VDC, regulated (does not vary under load). If you are in doubt, measure the output of the power supply with no load and if it is over about 9.8VDC it is not regulated and can not be considered to be "PSA power".*

ACA power supplies give out 12VDC unregulated, which means the voltage can vary from perhaps 15VDC unloaded to 10V fully loaded. This is described as nominally 12VDC. While ACA pedals are not specifically designed to operate from a regulated supply, a regulated 12DC supply (remains at 12VDC or some very close voltage under all load conditions) can be considered to be ACA power.

Power supplies marked "9VDC" without also saying "regulated" must be treated with suspicion. ALWAYS measure the output voltage - often these are unregulated and will give a similar voltage to ACA power supplies. There has been some success using unregulated power supplies with a "9VDC" nameplate to power ACA pedals. **Never use a power supply like this with a PSA pedal under any circumstances - it will kill it. This is the biggest destroyer of "D6" in old DD-3 pedals.**

When the term ACA is used in the pedal power scenarios below it means a power supply that is nominally 12VDC, like an actual ACA supply or a 9VDC nameplate supply that has been measured to confirm the output is similar to an ACA supply.

Power supplies marked "12VDC" without also saying "regulated" must be treated with suspicion. ALWAYS measure the output voltage - often these are unregulated and will give up to 20VDC unloaded - this is too much even for an ACA pedal. **Never use a power supply like this with with a Boss pedal under any circumstances - it will kill PSA pedals and may kill ACA pedals.**

A note on "AC" power supplies. If the power supply is marked "AC" or has a wavy line next to the output voltage rating on the name-plate DO NOT USE IT ON A BOSS COMPACT PEDAL.

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For the "PSA power" thing to work when daisy-chaining PSA and ACA pedals, there are mandatory requirements:
a) There is at least one PSA pedal in the chain.
b) The power is daisy-chained - you must power all the pedals from the one PSA power supply with a power daisy-chain cable.
c) The pedals must have audio patch leads patching them all together.

The ACA power circuitry in the ACA pedals is defeated by using the audio ground connection as the ground for power in the ACA pedals. The ground/return current for the ACA pedals runs down the audio patch leads to the PSA pedal(s).

IMPORTANT NOTE: in this context, you can substitute ANY pedal that has "normal" or "non-ACA" power circuitry for the PSA pedal. In the real world, this means almost any non-ACA pedal, Boss or non-Boss. Just ensure it is a negative ground pedal!

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Various pedal power scenarios (remember the definitions of PSA power and ACA power above):

1) ACA only pedals on PSA supply, daisy chained or isolated = insufficient voltage for ACA under all circumstances. Most ACA pedals will work. PSA power will not damage an ACA pedal. However, the LED may be dim/non-existent and distortion levels may be higher.

2) ACA only pedals on ACA supply, daisy chained or isolated = appropriate voltage for ACA.

3) ACA and PSA pedals mixed on a daisy-chained ACA supply = overvoltage for both PSA and ACA pedals (the PSA pedal wants 9V and is receiving 12, and the voltage drop circuit in the ACA pedals is also defeated). Never use this arrangement under any circumstances - it will kill the PSA pedal(s) and probably damage the ACA pedals.

4) ACA and PSA pedals mixed on a daisy-chained PSA supply = appropriate voltage for ACA and PSA pedals

5) ACA and PSA pedals patched together but each pedal supplied from an isolated supply ... OK as long as you make sure PSA pedals have PSA power and ACA pedals have ACA power.

6) PSA only pedals on PSA supply, daisy chained or isolated = correct voltage for PSA

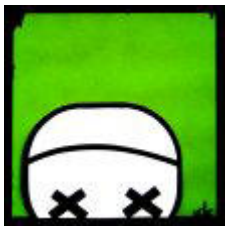
7) PSA only pedals on ACA supply, daisy chained or isolated = overvoltage for PSA. Do not do this! It is the biggest killer of Boss PSA pedals

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **natthu** » 19 Mar 2014, 05:49

Excellent reference summary. Thanks for that Laurie



natthu

Re: PSA and ACA pedal power and daisy-chaining

by **Clean Channel** » 19 Mar 2014, 06:27

Well done Laurie! Nice to have a complete and thorough summary all in one place. I'll be saving this page for future reference.

As always, your Boss related posts are among the most accurate and informative anywhere on the internet.

Clean Channel

Re: PSA and ACA pedal power and daisy-chaining

by **Guga Ramone** » 19 Mar 2014, 21:08

Excellent job!

Topic should be sticked to further reference.

Guga Ramone

Re: PSA and ACA pedal power and daisy-chaining

by **BossBrasil** » 29 Mar 2014, 03:23

always perfect in their explanations

congrats

BossBrasil

Re: PSA and ACA pedal power and daisy-chaining

by **soupbone71** » 05 Apr 2014, 06:10

Does the ACA Pedals sound better because they were made for 12v operation?I know about how to make aca pedals work on 9v operation.(Thanks to Andreas (stinkfoot).Wondering about that.Great info Laurie!

soupbone71

Re: PSA and ACA pedal power and daisy-chaining

by **Dirk** » 05 Apr 2014, 08:21

No, they sound exactly the same regardless of power source. It's just what it says it does; give power.

Dirk

Re: PSA and ACA pedal power and daisy-chaining

by **soupbone71** » 11 Apr 2014, 09:32

Thanks Dirk!

soupbone71

Re: PSA and ACA pedal power and daisy-chaining

by **fenderjapan** » 29 Apr 2014, 04:35

I've been using a Pedal Power Mondo which has dip switchable 12V output. It works great... as long as you don't plug the wrong thing into the wrong jack, or forget to set the dip switches :-p.

fenderjapan

Re: PSA and ACA pedal power and daisy-chaining

by **Monotremata** » 29 Apr 2014, 07:43

I can confirm the digital noise using a 1Spot. It powered a volume pedal, wah, PH-2, BF-2, HM-2, CH-1, TR-2, Blue Box, Rat and tuner just fine. The minute I plugged it into my Line 6 DL-4, that oscillating clock noise came out.. I don't mind though, i mean I play an awful lot of noise anyways hehe..

Monotremata

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 29 Apr 2014, 13:28

The DL-4 requires AC power, not the DC power of the 1-spot. It also requires WAY more mA than the 1-spot can provide. Respectfully suggest this is not a good idea...

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **fx23** » 07 Jul 2014, 00:17

I've got one of those boss micro power racks. i have several racks and pedals hooked up to it

fx23

Re: PSA and ACA pedal power and daisy-chaining

by **Dirk** » 12 Jul 2014, 08:50

That will work, those in and outs are just the same daisy chain as on the TU-2 for example.
It makes no sense why they labeled them "in" and "out", they're just parallel wired.....

Dirk

Re: PSA and ACA pedal power and daisy-chaining

by **techhed** » 15 Sep 2014, 20:38

I run my out front effects (pitchblack tuner ->Boss SD-1 (ACA power) -> Mooer Black Secret-> EHX Neo Clone-> Peavy Valveking 212) off of a 1-spot. Will this hurt my SD-1? Also. I run my my Line 6
DL4 off of a separate 1-spot with the line 6 adapter for the 1-spot and I have no clock noise like you were talking about. Maybe it only happens when you daisy-chain.

techhed

Re: PSA and ACA pedal power and daisy-chaining

by **Guga Ramone** » 15 Sep 2014, 21:07

As long as the SD-1 is daisy chained, it will work properly. If you power it up with a PSA it may not work, but it won't damage the pedal.

Doesn't the DL4 needs a special power supply? At least, that's what I've read...

Guga Ramone

Re: PSA and ACA pedal power and daisy-chaining

by **techhed** » 15 Sep 2014, 21:50

Mine says: Power Requirements: 9VAC 1200mA minimum. I also use the adapter made for the 1-spot for powering the line 6 modelers. Works like a charm.

techhed

Re: PSA and ACA pedal power and daisy-chaining

by **Guga Ramone** » 16 Sep 2014, 02:05

That's it, the DL4 needs a AC power supply and the PSA is a DC type. If it was my pedal, I would invest some money and get the right type adaptor for the DL4, as it is not a cheap pedal.

Guga Ramone

Re: PSA and ACA pedal power and daisy-chaining

by **Jeremy** » 14 Nov 2014, 09:54

Please consider. My understanding. May not be correct

It may not be sufficient to daisy chain PSA power into a mixed ACA/PSA set, they must all share a common signal path (or at least an earth) for the set up to work

I have set up ACA pedals on a daisy chain but with separate signal paths and it don't work.

Jeremy

Re: PSA and ACA pedal power and daisy-chaining

by **Brian_R** » 12 Dec 2014, 06:13

Thanks so much. I was wondering about this as I was asked. Glad you spelled it out!

Thanks again.

Brian_R

Re: PSA and ACA pedal power and daisy-chaining

by **Mosher Zone** » 12 Dec 2014, 22:28

> *Monotremata wrote:*
> *I can confirm the digital noise using a 1Spot. It powered a volume pedal, wah, PH-2, BF-2, HM-2, CH-1, TR-2, Blue Box, Rat and tuner just fine. The minute I plugged it into my Line 6 DL-4, that oscillating clock noise came out.. I don't mind though, i mean I play an awful lot of noise anyways hehe..*

I used to get this too with daisy chaining several Boss pedals & my Line 6 Uber Metal from the TU-2, I ended up buying a separate supply for the Uber & it was fine. I now use a Voodoo Lab ISO-5 too power everything with no probs.

Mosher Zone

Re: PSA and ACA pedal power and daisy-chaining

by **Teleholic** » 16 Jan 2015, 23:42

Hi guys..got a psa/aca powering question..Has anyone ever experienced certain aca pedals not powering properly owing to position in the chain? I tried hooking up my tu3 , ce2 , od1 , vb2 and dm2 in that order with a one spot.. the tu3 and ce2 lit brightly, but the od1 was really dim though the sound was not affected..the dm2 would not light up and the delayed repeats were half in volume..checked all connections and all seemed fine.. then i swapped the od1 to go last and everything lit brightly and worked perfect! repeating my first order i get the same problem..is it a power requirement thing? Thanks!

Teleholic

Re: PSA and ACA pedal power and daisy-chaining

by **Clean Channel** » 17 Jan 2015, 00:15

Try the order you want, but swap around which plugs are powering which pedals.

I'm not as technical as some of the others here, but I've found that has worked for me in the past. Something to do with which pedal gets the ground or something.

Clean Channel

Re: PSA and ACA pedal power and daisy-chaining

by **dog-pete** » 22 Feb 2015, 14:52

Just got a Boss PSA adapter and a daisy chain off-bay cheap. Just checking: It is ok for me to daisy chain PSA and ACA pedals together in one chain of off my TU2. None of the pedals will get damaged and all will function properly. Is this correct?

Just want a power saving solution while I am waiting until I have enough money to get a Pedaltrain and Pedal Power 2. Just bought 4 new pedals and new guitar. Need to slow the spending down for a while. Besides, I should play around with my new pedals and make sure they are what I am going to want. I should wait until I know exactly what will be going on my board before I order the Pedaltain - other pedals have much larger footprints and if I change my mind, it'll suck if thing don't fit anymore.

dog-pete

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 22 Feb 2015, 15:01

Please see point #4 here
http://www.stompboxzone.com/forum/viewtopic.php?f=3&t=2833#p30058

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **Mosher Zone** » 22 Feb 2015, 15:05

> *dog-pete wrote:*
> *Just got a Boss PSA adapter and a daisy chain off-bay cheap. Just checking: It is ok for me to daisy chain PSA and ACA pedals together in one chain of off my TU2. None of the pedals will get damaged and all will function properly. Is this correct?*

Yes, I used to power HM-2, GE-7 & HF-2(ACA) along with DD-2, CE-5, NS-2(PSA) all of my TU-2 for years with no problems.

Mosher Zone

Re: PSA and ACA pedal power and daisy-chaining

by **Mark123** » 22 Feb 2015, 17:15

Should work; never experienced any problems. If it starts to sound funny, or noisy, you may have too many pedals connected. Or pedals that draw avlot of current (e.g boss twin pedals)

Mark123

Re: PSA and ACA pedal power and daisy-chaining

by **dog-pete** » 22 Feb 2015, 17:50

Will it cause issues/damage anything if you have them daisy chained together but you don't have the audio patch cables connected? I mean other than your audio signal not passing through obviously. I guess I mean is the audio cables contributing to the power working properly?

dog-pete

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 22 Feb 2015, 20:56

Must have Audio cables connecting all pedals.

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **Pepe** » 22 Feb 2015, 21:37

But leaving them unconnected won't cause damage.

Pepe

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 22 Feb 2015, 23:56

No, it will just underpower the ACA pedals.

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **dog-pete** » 23 Feb 2015, 02:13

Got it. Was just wondering if I had to be careful with this if I started unplugging and moving patch cables around while they were plugged in to power. Doesn't sound like it

Thanks Laurie!

dog-pete

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 23 Feb 2015, 03:31

Ah... helps to have the specific question. This won't cause any power problems.

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **Stratgear** » 08 Nov 2015, 20:19

Stratgear

Re: PSA and ACA pedal power and daisy-chaining

by **BearBoy** » 09 Dec 2015, 15:07

I've always just daisychained my pedals but was thinking of getting a "proper" power supply and have just been looking at the MXR ISO Brick.

The blurb says:

> *Each of the Iso-Brick Power Supply's 10 outputs is fully isolated, eliminating gig-ending ground loop noise. Whether analog or digital, positive or negative ground, this power box has you covered. The MXR team broke down these 10 outputs to accommodate a variety of voltage and current requirements: two 9V outputs at 100mA, two 9V outputs at 300mA, two 9V outputs at 450mA, two 18V outputs at 250mA, and two variable outputs adjustable from 6V to 15V at 250mA. The two variable outputs can be used to emulate voltage "sag," a drained battery effect sought by many vintage tonechasers.*

Would this work with Boss ACA pedals? Would I need to use one of the variable outputs and set it to 12V?

Alternatively, could I daisychain a PSA and ACA pedal off one of the 9V outputs? Although I guess that sort of negates the benefits of having isolated power.

BearBoy

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 09 Dec 2015, 19:38

Either way will work. I'd suggest using an isolated adjustable one set to 12v

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **BearBoy** » 09 Dec 2015, 22:43

Thanks Laurie

Probably daft question but why do ACA pedals work fine with 9V batteries?

BearBoy

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 09 Dec 2015, 23:13

The ACA pedals have a voltage drop circuit to take the 12V down to 9V. The 9V battery connects in after the voltage drop circuit. When using a battery the voltage drop circuit is never engaged.

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **BearBoy** » 09 Dec 2015, 23:47

Thanks (again) Laurie.

BearBoy

Re: PSA and ACA pedal power and daisy-chaining

by **brianzebra** » 22 Jan 2016, 06:36

I saw for sale on eBay some of the old ACA-120 adapters, so I bought a few to use with the older Boss stompboxes I have. I also found images on the Internet (Google/Images) of the ACA-120. Some of the labels in the images and on the ones I just bought have a label saying 3.5W, and some say 5W. I'm confused, because I would have expected that all of them using the same model number (ACA-120) would have the same specifications. I also noticed that the shapes/angles of some of the adapters I bought are a little different, rather than being identical as I would have thought they would be. So far I haven't found in any discussion forums that address the ACA-120 any mention of the difference between the 3.5W and 5W versions of the ACA-120.

So, I'm wondering whether Roland did in fact make different versions of the ACA-120 - some 3.5W, and some 5W. I want to make sure some of the ones I bought are not bogus and part of a scam, if all of them are supposed to be 3.5W, or all of them are supposed to 5W.

A related question is that if both types of watt amounts were validly made and sold by Roland, would either wattage work with any of those old Boss pedals? Or do I have to match up the 3.5W ones with only certain Boss stompboxes, and match up the 5W ones with other specific Boss stompboxes? Does the difference in wattage make any difference in performance or anything else, or be potentially harmful/destructive when being used with any of the stompboxes, if not matched up with the correct stompboxes? As you can tell, I'm not an electrical expert, so I don't know the significance of the difference in the number of watts mentioned on the labels of the ACA-120s I bought.

FYI, the old Boss stompboxes I intend to use with the ACA-120s I bought on eBay are: 1) Boss CS-3 Compression-Sustainer; 2) Boss OD-2 Turbo Overdrive; and 3) Boss CE-3 Chorus.

Thanks for any information you could provide.

brianzebra

Re: PSA and ACA pedal power and daisy-chaining

by **Guga Ramone** » 22 Jan 2016, 13:53

I'd say to you don't worry with how many Watts it puts out. Instead, check out how many mA's it can put out. The sum of al the pedals you are going to use with the power supply must be less than what it can offer.

Guga Ramone

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 22 Jan 2016, 16:54

Haven't seen that before. I'm guessing the 3.5W version in 200mA and the 5W version is 300mA? Either will power the pedals you mentioned.

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **Mark123** » 22 Jan 2016, 18:09

As Laurie said the wattage/power goes up with with increasing max current, but a quick scan of google images suggest that the 3.5 vs 5 W difference is related to the American and European power networks which operate at 60 and 50 Hz ac frequency respectively. They are both rated at 200 mA. The 250 and 300 mA adapters are rated 6/7 W depending on frequency.
I guess you can use either. Btw, if you daisy chain the pedals you can run all of these pedals on one adapter and sell the others. And if you are using a boss pedal in the chain suited for the psa adapter you don't need any of aca's.

Mark123

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 23 Jan 2016, 13:24

Frequency... that makes sense.

In any event any ACA adapter will run those pedals.

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **pennyroyaltea94** » 29 Jan 2016, 19:39

So , how come you can use ones with a WAVY Line ?

pennyroyaltea94

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 29 Jan 2016, 21:37

A note on "AC" power supplies. If the power supply is marked "AC" or has a wavy line next to the voltage rating on the name-plate DO NOT USE IT ON A BOSS COMPACT PEDAL.

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **pennyroyaltea94** » 29 Jan 2016, 22:00

This 12v Boss has WAVES and AC and DC written all over it .

http://www.sweetwater.com/store/detail/BRA120?adpos=1o2&creative=54989263441&device=c&matchtype=&network=g&gclid=CjwKEAiAuKy1BRCY5bTuvPeopXcSJAAq4OVsq3FisjuGI1ZKCXLP3ql8HLCqu4G3E1MR_bC3uDi-WhoCxYDw_wcB

pennyroyaltea94

Re: PSA and ACA pedal power and daisy-chaining

by **pennyroyaltea94** » 29 Jan 2016, 22:31

Along with this , WAVE LINE and AC and DC on it.

pennyroyaltea94

Re: PSA and ACA pedal power and daisy-chaining

by **Guga Ramone** » 29 Jan 2016, 22:42

Just complementing what Laurie said: *If the power supply **OUTPUT** is marked "AC" or has a wavy line next to the voltage rating on the name-plate DO NOT USE IT ON A BOSS COMPACT PEDAL.*

Guga Ramone

Re: PSA and ACA pedal power and daisy-chaining

by **pennyroyaltea94** » 29 Jan 2016, 23:52

OH OH , Meaning if the OUTPUT was AC instead of DC.

I get it. Sorry about that .

pennyroyaltea94

Re: PSA and ACA pedal power and daisy-chaining

by **GetAddicted** » 01 Feb 2016, 22:36

Can i power a Boss ACA pedal with a regulated isolated power supply?I have Carl Martin Pro Power which has dip switches for 12V.I'm confused because some guys say that you cant run ACA through a regulated isolated power supply and some others say that you can.

GetAddicted

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 02 Feb 2016, 05:16

If the ACA pedal is the only pedal powered by a regulated 12VDC output, it will work just fine.

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **GetAddicted** » 02 Feb 2016, 17:06

Thanks for the help!!Now i have a Boss Ge-7 MIJ ACA daisy chained with a 9VDC pedal..i want to get rid of having daisy chain in my setup so i will power the Ge-7 by the regulated 12V output of the Pro Power.

GetAddicted

Re: PSA and ACA pedal power and daisy-chaining

by **pennyroyaltea94** » 05 Feb 2016, 18:41

I got 9V , The tip would indeed fit in the 1 spot converter but I think the fact it does have 2 metal teeth like things in the plug, it's preventing me from plugging it in all the way.

I do have a 7V , Would 7V be safe on PSA 9V ? It's less juice but it would be more then a slightly dead 9v battery

pennyroyaltea94

Re: PSA and ACA pedal power and daisy-chaining

by **pennyroyaltea94** » 05 Feb 2016, 19:23

The 7.5V just lit the 9V PSA Just fine.

So how come 7.5 will work fine on a 9V PSA and then 9V won't work on a 12V ACA ?

7 &9 vs 9 & 12 is too much of a difference I guess ?

pennyroyaltea94

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 11 Jul 2016, 02:04

Bought this yesterday for 50 cents at a thrift store.

It was center-positive so I cut the plug off it and put a new one on wired center-negative.

It measures 8.85VDC which is close enough to 9VDC to qualify as good PSA power. $0.50 plus $1.50 for the plug and heatshrink. PSA power for less than $2.

Has the added benefit of being able to run off 240V when I move back to Australia.

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **Gasgano** » 11 Jul 2016, 14:02

Impressive. It's realiable, it's a winner.

Gasgano

Re: PSA and ACA pedal power and daisy-chaining

by **Dirk** » 11 Jul 2016, 17:20

Of course it is, it says so right on the label: A-WIN Technology.

Dirk

Re: PSA and ACA pedal power and daisy-chaining

by **pennyroyaltea94** » 23 Sep 2016, 07:50

Just bought this for my IBANEZ CF7 . Clearly says mean't for IBANEZ BOSS. I am going to feel like a complete dumby if their is a huge difference in the tone quality after using this one. I was using a 9V Behringer which had a long tip shaft.

Just werid because I been using a GENERIC 12V for my ds1 and it's pretty clear unlike the other combo.

pennyroyaltea94

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 23 Sep 2016, 15:22

That looks like a regulated supply... It shouldbe measured of course, but if it really is 9.6V regulated it can be considered to be PSA power.

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **pennyroyaltea94** » 25 Sep 2016, 07:22

cool and like I was saying Before

I was using a GENERIC 9V. Seemed kind of buzzy and also the TONE volume seemed low

You mean to tell me that 0.6 can make that much of a difference ? and perhaps a better build ?

pennyroyaltea94

Re: PSA and ACA pedal power and daisy-chaining

by **Mark123** » 25 Sep 2016, 08:46

A 9v power supply (or battery) in fact is a 9.6v ps, so we should call it 10v really. That's because a 1.5v battery in fact is a 1.6v battery. And it's six of those.
A regulated ps will give you 9.6 constant, whereas a nonregulated ps.. Well you never know, I guess it fluctuates.
Do you know that you can power many pedals of that one ps, incl. Your 12v ds1?

Mark123

Re: PSA and ACA pedal power and daisy-chaining

by **pennyroyaltea94** » 26 Sep 2016, 22:58

Hey I got it in and exactly this one

EHX BRAND

[Image]

The plug I had before had a long shaft so alot of the silver tube was visble , lack of connection maybe. I will find out tonight when I start playing it

pennyroyaltea94

Re: PSA and ACA pedal power and daisy-chaining

by **AgentDouble** » 27 Nov 2016, 15:18

Hi there !
Ok, i've read all this but i there's still a question :
As a Boss Compact Pedal freak, i own several ACA pedals and some of them don't even work with PSA (CS-3, SD-1). When i put then on daisy chain with some other PSA on 9V
they work but i noticed the LED is not as bright as when they are connected to my good old ACA power supply.
Does it mean that when the LED is dim the pedal works but in
degrated mode, and so it doesn't deliver the right sound ?

AgentDouble

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 28 Nov 2016, 02:45

Point #4 in the first post in this thread covers this.

It may be that the power ultimately delivered to the circuitry of the ACA pedal is lower on daisychained PSA power, but they will work as designed.

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **Hexade** » 30 Dec 2016, 01:13

When you say that the unregulated over-voltage situation can kill/damage pedals, what would the symptoms be? Do you mean they will fry and no longer work, or would it be slow damage over time? I ask because so many of us

buy used it might make it difficult to tell if previous owners have observed proper power requirements, unless the symptoms are obvious. Thanks!

Hexade

Re: PSA and ACA pedal power and daisy-chaining

by **AgentDouble** » 04 Apr 2017, 19:59

Hello. Here i am again wonderin about those ACA powered pedals. I saw there
http://atomiumamps.tumblr.com/post/2100 ... horus-mods
that the guy said "*If you're going to use a modern 9V adapter, you need to short out R1 and D1. You can just short wire terminals 2 and 3 together. You may have read that just daisy-chaining old Boss ACA-powered pedals with newer pedals "fixes" the power issue. This is NOT a fix! It causes power supply ground currents to run in the shields of your patch cables, because that's a lower-resistance path to ground than the pedal's own supply return. This may or may not cause you problems, but it's just bad practice.*"
I also noticed that the ACA pedals sounds louder with the right ACA power supply than when daisy-chained. And the light is also brighter, as i pointed before. I can't say if the sound is "better", but obviously "louder", and now i just don't know what to think about all this ? I love old ACA pedals and i want to get the best out of them.

AgentDouble

Re: PSA and ACA pedal power and daisy-chaining

by **atemporal** » 03 Jun 2017, 14:58

If I have a TU2, LS2, and/or NS2 can I daisy chain off more than one of those units if I'm only running one PSA supply. e.g. say I had 12 boss pedals two PCS cords and one PSA adaptor 500mA and the total current draw was under 500mA could I run the power into the TU2 daisy chain that to the NS2 and 7 other pedals, then run a 2nd daisy chain off the Ns2 to run the remaining pedals? (or do I need to buy a second PSA)

atemporal

Re: PSA and ACA pedal power and daisy-chaining

by **Dirk** » 04 Jun 2017, 09:41

No, as long as the current drain stays under 500mA, you'll be fine.

Dirk

Re: PSA and ACA pedal power and daisy-chaining

by **atemporal** » 04 Jun 2017, 19:01

thanks, much appreciated.

atemporal

Re: PSA and ACA pedal power and daisy-chaining

by **toyroomtim** » 10 Jun 2017, 09:41

http://www.mojostompboxes.com/blog/corr ... simplified

info i've assembled on the topic from first hand experience.

toyroomtim

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 10 Jun 2017, 13:46

Hi toyroomtim!

Looks very good, however a change is needed... With the greatest respect, this statement simply is not true "*Using an ACA adaptor on a PSA pedal might burn out the pedal, but this is pretty unlikely unless it surges*".

As only one example, using an ACA adaptor on a DD-2/3 **will** burn out D6. There are countless examples. See here:
viewtopic.php?f=5&t=3202&hilit=solder+repair

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **Blood Lion** » 11 Apr 2018, 01:37

Basic question I have a BCB-60 does it matter if I use ACA pedals with it. Is there any requirements I should know not to fuck my pedals.

Blood Lion

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 11 Apr 2018, 13:35

What power supply are you intending to use with it? And what pedals (exactly)?

Laurie

Re: PSA and ACA pedal power and daisy-chaining

by **Blood Lion** » 12 Apr 2018, 06:14

Well I'm just using the BCB-60 power supply that came with the board. I have a mix of both ACA and PSA pedals. PH-3, DS-1, PQ-4 and then VB-2, CE-2 and SG-1.

Blood Lion

Re: PSA and ACA pedal power and daisy-chaining

by **Laurie** » 12 Apr 2018, 12:43

Thanks. To confirm the advice is correct... what is the model of the power supply?

Laurie