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r/CarAV



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r/CarAV • 3 yr. ago

D__Wayne



What size fuse off the battery do I need for a 1200 watt rms amp

Edit: I'm running 2ga wire from battery to amp



8



34



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SandFate • 3y ago

Remember, the fuse is there to protect the WIRE, not the equipment. a 2 ga wire can handle around 200 amps. Which at 12 volts would be about 2400watts. If you expect a draw of about 1200 watts, then a 100 amp fuse would blow if the amp were to surge a bit past that, but my experience is to go a little more to allow for the system to burp a little, so a 120 amp fuse is ideal. This should be good for up to about 1500 watts. a 2 ga OFC wire can handle that.

If your wire is CCA, then don't exceed a 100a fuse.



13



Reply



dontlookformehere • 3y ago

This is the only correct answer here. The wire ampacity is based on size (gauge), length, and type of wire (ofc or cca), assuming the wire manufacturer made their 2 gauge true to gauge without going undersized. One thing that was slightly incorrect in the response is that fuses don't pop the instant they've reached their rated amperage. Each type of fuse has a specific amount of time it takes to pop. Anl and mini anl tends to be about the best option for cost and availability. Additionally, unless you're listening to straight bass tones, chances of your amp pulling the rated wattage for more than a few seconds.



6



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Dabnectar • 2y ago

What about the size fuze needed for true 0g ofc awg wire



2



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1 more reply



Shaggydax1 • 3y ago

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8 [Reply](#) ...



D__Wayne OP • 3y ago

It's about 10'

4 [Reply](#) ...

+ 7 more replies



ckeeler11 • 3y ago

[Top 1% Commenter](#)

150 amp would be a good option. The wire is rated for more but the amp will not need it.

9 [Reply](#) ...



AmSoDoneWithThisShit • 3y ago

Ohms law was the first thing I learned in school.

Power = Volatage * Current...

Power / Voltage = current

So 1200w/12v =100a

But you'll need to know peak power draw. RMS is average.

7 [Reply](#) ...



Thewongsub • 3y ago

The average voltage on a healthy battery is 14.48v or really close to that.

5 [Reply](#) ...

+ 3 more replies



doubeljack • 3y ago

This is the correct application of math and science. However, I want to note that while we generally refer to car electrical systems as running at 12V, the reality is they run a bit higher than that. Usually the voltage is 14 and change, something like 14.2-14.4V.

4 [Reply](#) ...

+ 5 more replies



Deep-Ad7652 • 1y ago

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ofc copper

↑ 2 ↓ [Reply](#) ...



Shaggydax1 • 3y ago • Edited 3y ago

I have three amps on a 1/0 gauge run.....

RF T1000x1 1000 watts rms(1605 birthsheet)

RF T400ADx4 400 watts rms(492 birthsheet)

RF T400A/Bx4 240 rms (308 birthsheet)

and I have run a 140 amp fuse at the battery for 8 months and never popped it. So you should be fine with a 150 amp fuse or less. That is my 2cents. lol

↑ 1 ↓ [Reply](#) ...



zeroohmz • 7mo ago

What do y'all think about 5145 strand ofc tinned 1/0 on a Kicker 46cxa1200.1? (KnuKonceptz ofc 1/0) Should I change to a 150-200A fuse on my fuse coming off battery that runs to amp or just stay using the 100A? I was using 4 awg kicker wire and now this wire is about double the size. Power wire run is only a few feet long. Maybe 3.5 feet at most...

↑ 1 ↓ [Reply](#) ...



Ancient-Beat9750 • 3y ago

I'd say 100-150a should be enough

↑ 1 ↓ [Reply](#) ...



Ok_Dog_4059 • 3y ago


It really depends partially on if you are trying to protect the Amp or protect against a short causing a fire. Many times amps have their own fuses that will protect them the fuse at the battery is there so that a short won't cause a fire. You can use a fuse similar to the ones protecting the amplifier or you can go with a fuse or breaker bigger than the amps protective fuses the shorting of the wire will blow nearly any fuse or breaker and as long as it is at least as big as what is in the Amp then the amplifier itself is protected by those fuses even if the fuse or breaker at the battery doesn't go.

↑ 1 ↓ [Reply](#) ...



Kenni57rocks • 3y ago


Bout tree fiddy

[Skip to main content](#)[Log In](#) **stale_milk_** • 3y ago

Fuse size is based on the wire temperature rating, conductor material, gauge, and run length. 2 ga is between 75 and 130 amp rating per code. Depends on the wire rating obv. Since you are doing 1200 rms you should get at least a 90-100 amp fuse

<https://www.usawire-cable.com/pdfs/nec%20ampacities.pdf>


↑ 0 ↓ [Reply](#) ...

 **[deleted]** • 3y ago

Crutchfield has a nice wire gauge / length / amperage diagram.


Typically if I run a larger gauge I'll just use the fuse size of the amp if nothing else is on that wire.

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 **[deleted]** • 3y ago

Doing 150a fuse will allow max power to the amplifier while still providing you protection for the wire and equipment.

↑ 1 ↓ [Reply](#) ...

 **jake_souder** • 3y ago • Edited 3y ago

100 amp fuse is good for about 1400 watts which gives you some headroom if your amp actually does 1200 watts but it seems to only do 900 watts at 2ohms so yeah 100 amp fuse is enough

↑ 1 ↓ [Reply](#) ...

 **r/CarAV** • 8 mo. ago


Will I regret a 1000 watt amp for 1200 watt sub?

10 upvotes · 61 comments

 **r/CarAV** • 10 mo. ago

How many watts RMS do you have to be running before it's absolutely necessary to upgrade electrical like adding batteries and alternators???

26 upvotes · 65 comments

 **r/CarAV** • 1 yr. ago

Do I buy a 1000 watt amp for 1000 watt subs or do I get a bigger amp

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r/CarAV • 9 mo. ago

I need a good 2000 watt 2ohm amp

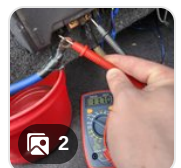
35 comments



r/CarAV • 7 mo. ago

Getting voltage through power wire, but only when it's not attached to the amp..

22 upvotes · 48 comments



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48 upvotes · 37 comments



r/CarAV • 1 mo. ago

Substantial difference between these amps?



47 upvotes · 44 comments



r/CarAV • 1 mo. ago

Where should I ground my amp?



14 upvotes · 29 comments

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r/CarAV • 2 mo. ago

Should I run all my wires for sub and amp down one side of car?

6 upvotes · 16 comments



r/CarAV • 9 mo. ago

Thinking of installing my sub/amp to my new car with a stock stereo. Do you think I can do it myself?

5 upvotes · 13 comments



r/vandwellers • 3 yr. ago

3000 watt inverter questions

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is it safe to unplug my sub while the amp is still connected to my car battery?



62 upvotes · 38 comments

 r/CarAV • 2 mo. ago

First sub & amp install, how did I do?



431 upvotes · 124 comments

 r/CarAV • 4 days ago

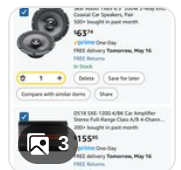
Super noob here , do I need to buy an amp for these speakers?



59 upvotes · 103 comments

 r/CarAV • 6 days ago

Do I have everything I need to put in my door speaker amp into my car?



77 upvotes · 133 comments

 r/AskElectricians • 3 yr. ago

Can I Use a 20 amp breaker here?



9 comments

 r/GoRVing • 3 yr. ago

Using (extra) 50 amp service

1 upvote · 10 comments

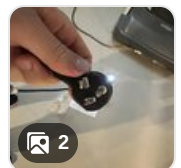
 r/electrical • 3 yr. ago

electrical newb needing extention cord advice.

5 upvotes · 14 comments

 r/electrical • 3 yr. ago

Does anybody know (1) what this is and (2) if I can convert it into a normal outlet somehow?
It's for a cyber treadmill I am trying to use in my basement. Thanks!



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Quick wire gauge question.

1 upvote · 9 comments



r/CarAV • 3 mo. ago

How should I tune my amp?

28 upvotes · 55 comments



r/CarAV • 2 mo. ago

How do I hook my aftermarket tweeters with stock wiring to my head unit with a 4 channel amp running my front and rear speakers?

5 upvotes · 55 comments



r/SoundSystem • 1 mo. ago

What kind of power distribution/conditioner do I need for this amp rack?

26 upvotes · 15 comments



r/VanLife • 3 yr. ago

Victron shore power Amp Setting?

1 upvote · 2 comments



r/CarAV • 1 yr. ago

Want to power a car stereo in my garage

46 upvotes · 82 comments



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