

* The JUICE JOINT can be used on its own for smaller rigs or can be used as an expansion to the JUICE BAR (18v, 12v and 9v). You cannot expand the USB outs. The JUICE JOINT also offers the option of a battery power supply input or a 9v/5v power supply input just like the JUICE BAR, however, there is no internal conversion, mA tester or USB outputs on the JUICE JOINT. One of the advantages of the expansion option is that whatever goes into the JUICE JOINT comes out so if you put 18v in there you will now have 7 more 18v outputs, same goes for 12v and 9v. You can only expand one voltage type one at a time so if you need to expand 18v, 12v and 9v it will require (3) JUICE JOINTS to do so. The example shows that you can simply expand any of those voltages if need be. This makes it a scalable system depending on your needs.

The JUICE BAR is an innovative approach to how you power your rig. The JUICE BAR is NOT a power supply but rather a power distributor that offers you multiple choices of how you would like to power your rig. You can use a battery bank like those used for cell phones or you can use a typical wall wart 9v switching power supply like our JUICE or a 1Spot. You can also use a typical Iphone/Ipad charger or anything of the like, it does not have to be an Apple product just any mobile device 5V charger.

See below for specs on the Apple Power Supplies:

The outputs on the Juice Bar are not isolated which means they do not have power on each output but rather it has a global power source that powers all outputs. The benefit of isolated outputs is that if one channel fails you still have the other channels to draw from. With the JUICE BAR, if your power source fails you will have no working channels. This sounds less advantageous but if you are using a linear supply like a Voodoo Labs power supply with isolated outs and one channel does fail you still need to figure out how to get power to the pedal(s) that were being powered by that failed channel. Sometimes a "Y" cable to share one jack is an option but you may be drawing too many mA's from that isolated output. Isolated outputs are limited to how much power each output can supply ranging from 100mA to 500mA depending on the supply.

Our system draws from a 2 amp source (2,000 mA) if our JUICE or a 2 amp battery is used and then it simply distributes as power is needed per pedal vs pigeon holing you to a single output and its respective power availability. This will allow each pedal to draw what it needs and making it less likely that there will be an overload or unused power.

The mA tester is a very convenient option because it will visually let you know when your board is drawing more power than your power supply can handle. When a board draws too much power it tends to get noisy, pedals do not sound right because they are not getting enough mA's for optimal performance. When you see that your tester shows green you are optimal, when it shows orange you are starting to push the limits of your supply and of course if it goes red you are drawing too much. This is a great feature to help you understand limits and to solve problems from power issues with less time trouble shooting.

Our JUICE Supply is a very sturdy 2 amp (2,000mA) supply which is about 250 mA's more than a 1Spot. That being considered, if you look at your typical overdrive they will usually draw around 8-30mA depending on the circuit. The Extra 250 mA's allows you to power significantly more pedals. That being said if all of your over drives were on the lower end (8mA draw) you would be able to power 31 additional pedals because of the extra 250mA that our JUICE Power Supply offers. If your overdrives draw on the higher end like 30 mA's you will be able to power 8+ more pedals so it can be very significant having the extra 250mA on tap from our JUICE Power Supply vs a 1Spot.

The JUICE BAR is very sophisticated and saves a lot of hassle especially when you have 12 and 18 volt needs. Usually there are a few odd balls that take these voltages and you either have to have their proprietary supply on hand or you have to have a substantial power supply like the Voodoo labs mondo. Most of the large linear supplies have 18v outs but not many have 12v. On the lesser supplies you have to sacrifice a channel with a Y cable in order to achieve 18v which takes away a much needed output. Then you may be faced with only one 18v or 12v output, what if you have more than one 18v or 12v pedal? The JUICE system solves this problem as well by adding a JUICE JOINT as detailed on page 1 as "Example A".

See Apple charger samples below. The JUICE BAR AND JUICE JOINT accept USBc style plugs so even the new chargers will work that have a USBc to USBc connection. We, however, supply a USB (Standard) to USBc cable in order to accept older as well as newer connections. Please pay attention to the amperages below since the higher the amperage the more pedals you can power. The ability to use the Apple or the like charger devices is not the intended supply but they are a great backup in a pinch. We spent a lot of time making sure our JUICE supply is extremely quiet which is something we cannot guarantee on an Apple or the like charger. In our tests they do work just fine but be aware that there is a possibility of noise even with the filtering system in the JUICE BAR.

When using a battery be aware that most battery packs require some draw or they will shut off which is an inherent safety feature of these batteries. In order to avoid the battery shutting off make sure you have at least a 20mA load. Some pedals can be as low as an 8mA draw but it is unlikely that anyone would use a power distributor to power one or two pedals.

10 WATT IPHONE CHARGER 5.1V - 2Amp



Designed by Apple in California Assembled in China

10W USB Power Adapter

Model A1357 Input: 100-240V~ 0.45A (0,45A) 50-60Hz
Output: 5.1V --- 2.1A Foxlink Technology Ltd. W010A051

NSW24363 LPS

JET 

Apple Japan

ITE Power Supply 32MM E199967

12 WATT IPAD CHARGER 5.2V - 2.4 AMP



Designed by Apple in California Assembled in China

12W USB Power Adapter

Model A1401 Input: 100-240V~0.5A (0,5A) 50-60Hz
Output: 5.2V --- 2.4A Flextronics 0012ADU00 LPS

TUV SUD PSB 

Apple Japan

ITE Power Supply 32MM E199967

18 WATT IPHONE USBc CHARGER 5V - 3A or 9V - 2 AMP



20 WATT IPHONE USBc CHARGER 5V - 3A or 9V - 2.22 AMP



The driving force behind the creation of the JUICE BAR and JUICE SYSTEM came from our love of the sound we get with batteries. Batteries are much more quiet, they do not introduce 60 cycle hum or grounding issues and they give a “blacker” background meaning that the electrical yuck in between notes is gone which makes chords clearer and leads more cohesive in terms of sound and sustain.

The downside to 9v batteries is cost and life. If you have 10 pedals and 10 batteries you will pay around \$30.00 depending on the brand. A year of gigging with 9v batteries can get costly along with the risk of acid bleed etc.

There have been battery powered power supplies on the market and all of them were/are a difficult product to live with since the charging time takes 2-3 hours. The operation time is usually less than the charge time around 1.5 hours to 2 hours. That creates anxiety when gigging and to constantly have to charge becomes a pain. Most people end up going back to traditional supplies and are ok with losing the sound benefit of batteries for the sake of convenience.

With the JUICE SYSTEM you can use a standard battery bank like the ones you use with cell phones. They can be found for cheap on Amazon for around \$29.00 for a 30,000 mAh rating. Depending on your needs that will dictate the size of battery you will want or need. To give a “general” idea on charge time and usage you can apply a loose formula *. If you have a 30,000 mAh (Milliamp Hour) battery with a 500mA draw you can expect to see an operation time of about 50-60 hours, if you have a 1,000 mA draw expect a 25-30 hour operation time. You can generally extrapolate from there, based on the size of the battery and your pedal board draw along with specific uses. * **Simple formula is: 1 mAh (Milliamp Hour) = 1 hour of use on a 1,000mA draw.** A 15,000 mAh battery should last 15 hours with a 1,000mA draw and so on.

We have found that the latest Mission Engineering battery is a very good product but does not address the typical issues that any battery supply has had in the past. The Mission product has a 4,000 mAh battery internally and it is not user serviceable. When that battery dies and they all do, you either have to send it in for a replacement with bench fee, parts cost and shipping. The Mission unit also takes 2-3 hours to charge and depending on your mA draw it only gets around 2 hours avg operation time. Chances are, after time, it is a throw away product.

With the JUICE SYTEM you can not only pick the size of battery you prefer, you can buy backups as well. The great thing about many of the battery banks is that they have a smart card in them that regulates the power and it also allows you to plug straight into the wall when it is low and will still supply battery power not wall power to your board. The Mission unit is rendered inoperable as it receives a charge. With the JUICE SYTEM you will never be down. You have battery options, standard 9v options such as our JUICE and/or 1SPOT, Iphone/Ipad chargers etc. This way you will never be “down” at a gig because someone always has a phone charger at the very least.

Enjoy the silence!!

Warranty

J. Rockett Audio Designs LLC will repair or replace, at its discretion, defective workmanship or materials on all new J. Rockett Audio Designs products directly or through the selling dealer or an authorized service technician for one year from the date of purchase at no cost to the original purchaser. Repair and replacement parts installed will be warranted for the unexpired portion of the original warranty term.

Before sending a product in for repair, please contact us at jay@rockettpedals.com or call us at +1 (720) 936-8623.

This warranty does not cover shipping costs, product appearance or damages caused by accident, abuse, misuse or alteration. A dated sales slip or order number (issued by a tech, dealer or J. Rockett Audio Designs) must accompany a product being returned for warranty service. Repairs without a return authorization number will be refused. Please allow four (4) weeks for warranty service. For more information please contact J. Rockett Audio Designs via our website at www.rockettpedals.com or call us at +1 (720) 936-8623. No other warranty is expressed or implied.

**Negative tip also known as center negative.
USE THIS POLARITY ONLY!!**



WARNINGS!!!

INPUT MAXIMUM VOLTAGE - The JUICE BAR provides flexibility on many levels which can also create a lot of possibilities of mismatch. We want you to be careful and mindful of voltage combinations that could possibly create harm to your pedals or the JUICE BAR itself. The 9VDC input (2.1mm Barrel Jack) can handle many voltages. When using the 9V input (2.1mm barrel jack) the max input voltage is 24V. You can power the JUICE BAR with anything from 9V to 24V as long as they are a maximum of 2 Amps (2,000 mA) and a negative tip polarity. The Juice Bar will down convert higher voltages internally to be appropriate which makes it very flexible powering scenario.

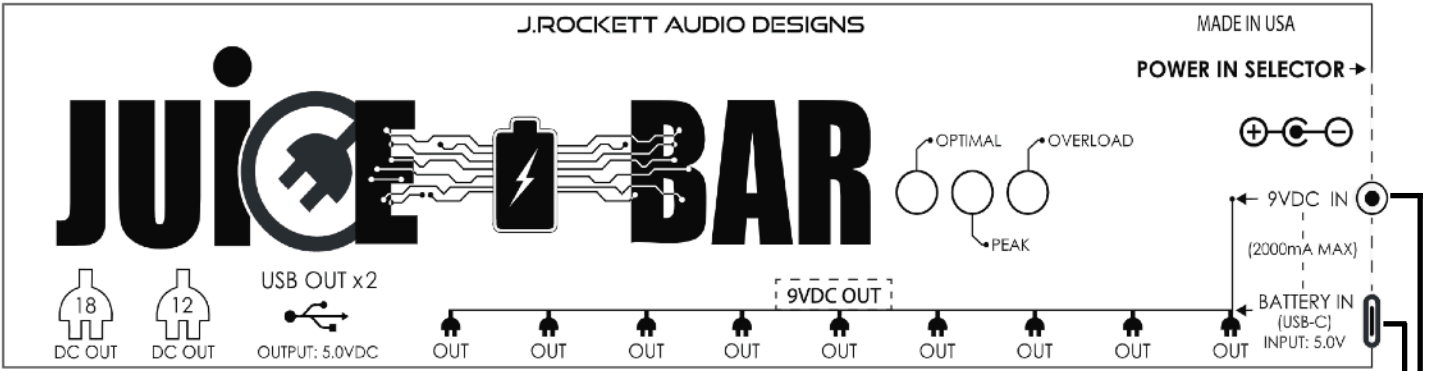
When using the USBc Input it is **ONLY** meant for a 5V charger that goes through internal conversion to 9V, 12V and 18V. **DO NOT** use anything other than a 5V USBc charger. (Typical mobile device charger).

Wattage - Has no bearing, any wattage will be fine

Amperage - the JUICE BAR has a 2 Amp (2,000mA) max input tolerance on both inputs. **DO NOT** use anything above 2 Amps (2,000 mA) on either the USBc input or the 9V input.

JUICE SYSTEM





18 VOLT OUTPUT *

12 VOLT OUTPUT *

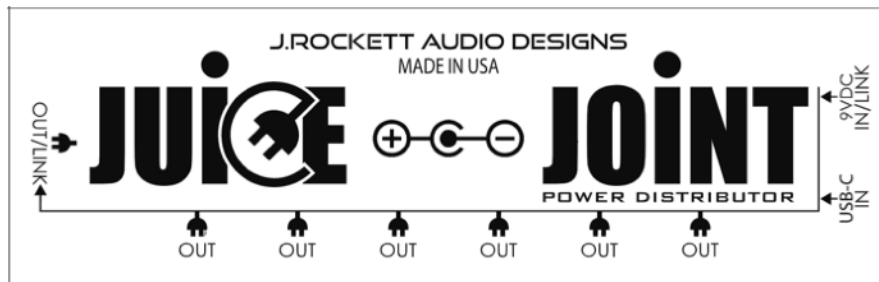
The Battery and the JUICE can power the JUICE BAR or the JUICE JOINT depending on which you own. If you own both you only have to power the JUICE BAR. The JUICE JOINT gets it power from the JUICE BAR.



EXPANSION OPTION

EXPANSION OPTION

EXAMPLE - A



mA DRAW SAMPLES

Voltage Outs	Current draw sample	Current draw sample	Current draw sample
9V	130mA	181 mA	165 mA
9V	130mA	181 mA	165 mA
9V	130mA	181 mA	165 mA
9V	130mA	181 mA	165 mA
9V	130mA	181 mA	165 mA
9V	130mA	181 mA	165 mA
9V	130mA	181 mA	165 mA
9V	130mA	181 mA	165 mA
9V	130mA	181 mA	165 mA
12V	500mA *	181 mA	250mA *
18V	250mA *	181 mA	250mA *

Since the JUICE BAR does not have isolated outs this is a chart to indicate how you might want to spread out the available milliamps. Column 1 shows both the 12v and the 18v recommended max output. If you have an 18v pedal that only draws 100mA and a 12v pedal that also draws 100mA the remaining mA's can be spread throughout the the other outputs.

There is no rule when the outs are not isolated, you are simply spreading your available mA's throughout. Just consider that whatever the mA draw may be that it all has to divide into the maximum of 2 Amps (2,000 mA) that are supplied. If your supply is less than 2 Amps you would divide into that number.

You could just as easily have a 2 amp (2,000mA) input max and draw all 2 amps off of 1 output or if you used 2 output to spread that 2 amp supply you would have (2) 1,000mA draws and so forth.

Above are samples and it is all dependent on the pedals you are powering.