



Thank you for purchasing the Voltz Pedal Power Pack. Please read the entire manual prior to setting up and using this device. If there are any questions about this product that you might have that are not covered in this manual, please feel free to call Amperor Voltz Tech Support at 281-807-3320 ext 106 or email [support@amperordirect.com](mailto:support@amperordirect.com)

## Features

- Included Voltz battery pack has self-contained charging system that can be charged by 115V<sub>AC</sub> or 230V<sub>AC</sub> (plug it into the wall in the states or abroad) or 10~32V<sub>DC</sub> (plug it into your car).
- Easy to read gas gauge for battery pack allows you to easily read how much power is left in the battery.
- Included milliVoltz power adapter lets you power your 9V<sub>DC</sub> and 18V<sub>DC</sub> pedal effects with simple plug and play integration.
- Interchangeable tips allow you to power all of your pedals without the need to buy extra input adapters.
- Available milliVoltz and Voltz accessories allow you to power the more exotic effect pedals with input voltage requirements of 12.0V<sub>DC</sub>, 15.0V<sub>DC</sub>, 18.0V<sub>DC</sub>, 24.0V<sub>DC</sub> and 40.0V<sub>DC</sub>.
- Power as many effects pedals with one power supply because of the 90W power output (that can power over 20 pedals twenty-four hours straight with a full charge).
- Completely silent design. No connection to regular 115V<sub>AC</sub> means no 60cycle hum and all isolated outputs mean no cross talk or ground loops to deal with.
- Protection circuitry makes it safe to use with any effect pedal.

## Inspection

Make sure your package includes the following items:

- Voltz integrated battery pack and charger.
- 3 each of the 9V<sub>DC</sub> milliVoltz power adapters with interchangeable tips.
- 1 each of the 18V<sub>DC</sub> milliVoltz power adapter with interchangeable tips.
- 12 inch Voltz to milliVoltz male-to-male tip cord.
- AC power cable
- Car Accessories power cable
- Compatibility guide
- Warranty Card
- Manual

## Safety Precautions

Please read the following WARNINGS carefully before operating the Voltz and milliVoltz battery-powered system.

### WARNINGS

- Do not disassemble product (there is a risk of shock and also voids the warranty).
- Do not use Voltz in temperatures below 32<sup>o</sup> F (0<sup>o</sup> C) or above 104<sup>o</sup> F (40<sup>o</sup> C) because this will shorten the life of the battery.
- Do not store Voltz in temperatures below -4<sup>o</sup> F (-20<sup>o</sup> C) or above 140<sup>o</sup> F (60<sup>o</sup> C) because this will shorten the life of the battery.
- Avoid exposing Voltz to water or wet conditions (if this occurs, unplug power and all accessories immediately).
- Do not expose Voltz to open flame or incinerate because battery may explode.

## Getting Started

**\*\*\*Before initial use, fully charge the Voltz battery.**

- Plug Voltz unit into wall or car accessory voltage supply with provided AC cord or DC car accessories adapter.
- Turn CHARGE / DISCHARGE switch on Voltz to CHARGE position.
- Allow charging for at least **four hours** or until FUEL GAUGE light has been illuminated to GREEN for at least 30 minutes.
- Make sure that none of the milliVoltz accessories are attached to Voltz for initial charging.

## Choosing the right milliVoltz to power your effects

- 90% of effect pedals are going to require a 9V<sub>DC</sub> power input. These pedals include most of the BOSS, LINE6, Dunlop, DOD and Digitech units. Usually you can tell if a pedal runs off of 9V<sub>DC</sub> if it requires a 9V battery for normal operation. It is also advised that you read through the owner's manual of the effect pedal itself. Also for a quick reference you can look in the compatibility chart provided with your Voltz unit.
- If the pedal is not equipped with a battery compartment then usually it requires an input voltage larger than 9V<sub>DC</sub>. Look at the DC input located on the effect pedal, the owner's manual of the effect pedal, the power supply that came with the effect, or the compatibility chart provided with your Voltz unit.
- It is very important that you use the correct milliVoltz adapter for your effect pedal. Damage to the pedal and/or milliVoltz may occur if the wrong setup is used.
- If you are unsure of which milliVoltz power adapter your individual effect pedal requires, please call Amperor Voltz tech support at 281807-3320 ext 106 or email at [support@amperordirect.com](mailto:support@amperordirect.com).

## Choosing the right interchangeable tip for your effect.

- There are only two things to consider while selecting an interchangeable tip for you affects pedal. One is the actual physical size of the tip (barrel length and barrel width). Polarity of the tip is the most important factor though while choosing a tip for you affects pedal.
- Please read the owners manual of the effect pedal or the enclosed Voltz compatibility chart to determine proper tip size and polarity.
- For the actual size of the tip, looks at the effect pedal DC input or the power supply that came with the effect pedal and find the size of the included interchangeable tip the matches up the closest. Insert the tip (make sure the tip is not connected to any power source) and lightly wiggle the tip around to make sure there is no excessive play in the connection.
- Determine the polarity of the tip needed by checking your owner's manual for the effect pedal, the power supply that came with the effect, the Voltz compatibility chart or by looking at the label on the DC input of the effects pedal you are trying to power.

## Important Operating Instructions

\*\*\*Make sure the polarity marked on the milliVoltz tip matches that of you effect pedal\*\*\*

\*\*\*Make sure that the voltage marking on the milliVoltz tip matches the voltage requirement of your effect pedal\*\*\*

\*\*\*Only use patch and guitar instrument cables that are grounded to avoid loss of signal\*\*\*

\*\*\*Be sure that the Voltz unit is switched to CHARGE if equipment is not in use to avoid the battery from being drained\*\*\*

\*\*\*When charging in AC or DC mode, make sure that the Voltz unit is switched to the CHARGE position prior to plugging in\*\*\*

\*\*\*To play while charging, first turn switch to CHARGE position and then plug in AC or DC power source\*\*\*

\*\*\*To play using only battery power, just flip the Voltz switch to DISCHARGE and you will have hours of isolated power at you disposal... make sure you turn the Voltz unit back to CHARGE after you are finished to avoid draining the battery\*\*\*

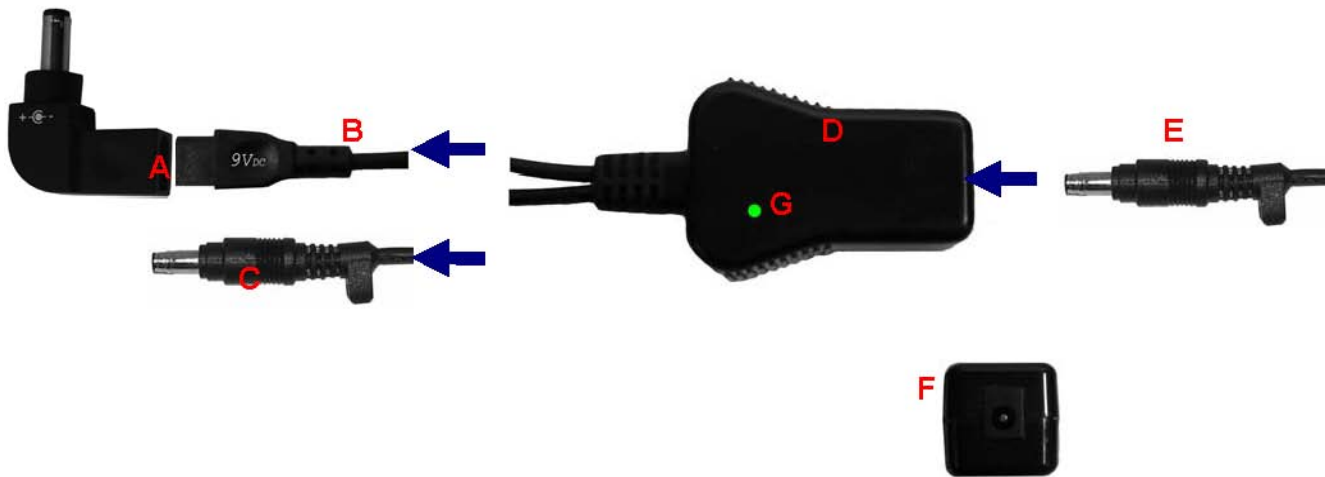
\*\*\*Make sure you periodically plug and unplug mechanical connections on your pedal board and turn knobs such as volume and trim pots (monthly). This will keep connections and knobs clean preventing failure during performance\*\*\*

# VOLTZ USER INTERFACE DESCRIPTION



- A. Battery Charge Status – This indicator light will give you precise status as to how much juice is left in your Voltz battery unit. Green light – you have full power (100-85% charge) Yellow light – still good to go (85-20% charge) Flashing yellow light – It's getting near the end my friend (20-10%) Red Light – Time to recharge before you rock (<10% charge)
- B. Charge/Discharge (ON/OFF) switch – When you want to play with battery power, just turn the switch to the ON position and the unit will discharge to power your effects. When you are done jamming and need to recharge, just flip the switch to the OFF position and plug it into the wall or DC outlet (car accessories outlet a.k.a. cigarette lighter).
- C. Output Jack – This is where you plug in the milliVoltz units into the Voltz to give you that complete hum-free setup. This is an 18VDC output so make sure you do not plug any effects directly into this output (unless you have a power hungry 18VDC Pedal). Use the included 12" male-to-male power patch to connect the Voltz to the milliVoltz.
- D. USB Charging Port – Have a device you want to charge while playing (cell phone, mp3 player, etc.)? Just plug the USB charging cable that came with your device into the USB output and presto, you have power!
- E. DC Input – Plug Voltz into your car using the included car charger plug adapter. Literally you can charge this unit on the road.
- F. AC Input – Plug Voltz into a wall outlet to charge while switch is in the charge position. Or in a pinch and you forgot to charge your voltz unit? Flip the switch to charge, plug Voltz into the wall and charge while you are playing.

## milliVoltz USER INTERFACE DESCRIPTION



- A. milliVoltz multi-tip – Actual tip size is marked on one side and the output polarity is marked on the other. Reference the compatibility chart included to ensure you are using the right tip size and polarity for your application. This is an isolated output so there is no noise produced when powering an effects pedal.
- B. milliVoltz multi-tip base – Provides the base to connect the output tip to the effect pedal voltage source coming from the milliVoltz converter. The base is conveniently labeled with the voltage output. Be careful to make sure that this voltage label matches with the voltage required by the effect pedal you are trying to power.
- C. milliVoltz 18.5V<sub>DC</sub> output – Gives power to another milliVoltz converter when connected. Only plug this output into another milliVoltz unit. This is a non-isolated DC output and may cause damage and noise if plugged directly into an effect pedal.
- D. milliVoltz – DC/DC isolated output voltage converter.
- E. milliVoltz 18.5V<sub>DC</sub> input – Plug coming from either another milliVoltz DC/DC isolated converter or from the main Voltz Battery and Charger power source via the provided 12” male-to-male jack connector.
- F. 18.5VDC input – Power input jack for the plug connector coming from another milliVoltz DC/DC isolated converter or from the main Voltz Battery and Charger power source via the provided 12” male-to-male jack connector.
- G. Status light – If you see green, then you are good to go. The light only comes on when there is power present.

## DAISYCHAIN ADAPTER INSTRUCTIONS

- 1 Make sure the pedals you are powering with the daisy chain have all the same polarities and voltage requirements.
- 2 If your set-up requires less than five outputs, be sure to put electrical tape over the conductors of the remaining unused outputs so you don't short anything out.
- 3 If you are experienced enough with electrical and musical equipment, you could cut the remaining unused outputs off for a cleaner look. Make sure that you cut the wire with sharp wire cutters as close to the rubber molding on the last daisy chain output you are using. After the cut is made, make sure that the ground and positive conductors from the power wire are not frayed or extruding past the plastic. If it is a clean cut, then make sure to tape everything up with 3M electrical tape to avoid shorting the outputs.

## 9V BATTERY ADAPTER

- 1 Make sure the tip you are using is a negative (-) center / positive barrel (+) for the connection from the milliVoltz to the input of the 9V Battery Adapter.
- 2 When the connections are made, attach the battery output side of the adapter into the battery connection of the effect pedal you are powering.

# Voltz and milliVoltz illustrated set-up



## Electrical Specifications

\*\*\*all specifications are subject to change without notification\*\*\*

### Voltz Battery Pack Integrated AC/DC and DC/DC Charger

#### AC Input

Input AC Voltage Range	90 to 265Vac
Frequency	47-63Hz
Input Current	1.6A @ 90Vac; Full Load
Power Rating	<130 Watts.

#### DC Input

Input DC Voltage Range	10 to 32V
Input Current	<11.0A @ 10V input
Input Power rating	110W max
Fuse Type	user replaceable 30A buss fuse

#### DC Output (main)

Total Output Power	90W Max continuous mode battery discharge mode 75W Max continuous .
Thermal Shutdown	Yes

#### DC Output (USB)

Output Voltage	5V
Max Output Current	1A
Output Connector	USB female connector

#### DC Battery

Capacity	6000mAh @ 0.2A discharge rate at 25°C
Cycle Life	over 70% of initial capacity after 300 cycles
Charging Time	3 Hrs @ 25° C

#### LED DISPLAY

Battery fully discharge indicator (Red) (<10%)
Battery status indicator #1 (Blinking Amber) (10% ~ 20%)
Battery status indicator #2 (Amber) (20% ~ 85%)
Battery status indicator #3 (Green) (85% ~ 100%)

# Electrical Specifications

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## 9V<sub>DC</sub> milliVoltz DC/DC Power Adapter

### DC Input

Input DC Voltage 18.5V<sub>DC</sub>

### DC Output

9.6V<sub>DC</sub> Max Current 500mA

9.6V<sub>DC</sub> Max Power 4.8W

Isolation 9.6V<sub>DC</sub> output isolated by transformer

## 12V<sub>DC</sub> milliVoltz DC/DC Power Adapter

### DC Input

Input DC Voltage Range 18.5V

### DC Output

12.6V<sub>DC</sub> Max Current 750mA

12.6V<sub>DC</sub> Max Power 9.45W

Isolation 12.6V<sub>DC</sub> output isolated by transformer

## 15.0V<sub>DC</sub> milliVoltz DC/DC Power Adapter

### DC Input

Input DC Voltage Range 18.5V

### DC Output

15.6V<sub>DC</sub> Max Current 600mA

15.6V<sub>DC</sub> Max Power 9.36W

Isolation 15.6V<sub>DC</sub> output isolated by transformer

## 18V<sub>DC</sub> milliVoltz DC/DC Power Adapter

### DC Input

Input DC Voltage Range 18.5V

### DC Output

18.6V<sub>DC</sub> Max Current 500mA

18.6V<sub>DC</sub> Max Power 9.3W

Isolation 18.6V<sub>DC</sub> output isolated by transformer

## 24V<sub>DC</sub> milliVoltz DC/DC Power Adapter

### DC Input

Input DC Voltage Range 18.5V

### DC Output

24.6V<sub>DC</sub> Max Current 500mA

24.6V<sub>DC</sub> Max Power 12.3W

Isolation 24.6V<sub>DC</sub> output isolated by transformer

# Electrical Specifications

\*\*\*all specifications are subject to change without notification\*\*\*

## 40V<sub>DC</sub> milliVoltz DC/DC Power Adapter

### DC Input

Input DC Voltage Range 18.5V

### DC Output

40.6V<sub>DC</sub> Max Current 200mA

40.6V<sub>DC</sub> Max Power 8.12W

Isolation 40.6V<sub>DC</sub> output isolated by transformer



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