



# Mission 529P 25000mAh Audio Power Bank

**STOP! Please read this before connecting your Mission 529P**

## General Description

The Mission 529P is a rechargeable power bank with 2 x USB A outputs, 1 x USB-C output and one programmable DC output. The USB-C output supports Power Delivery at 5V, 9V or 12V at 3000mA. The programmable DC output supports 5V, 8.4V or 9V up to 3000mA and 12V and 20V up to a maximum 4500mA. The 529P can be used standalone, or in conjunction with other Mission 529 products. The 529P can be used to power many audio products such as effects pedals, multi-effects units, mixers, wireless systems and small amplifiers. It can also be used to recharge laptop computers and portable audio workstations, tablets, phones and similar devices.

## Charging

Recharge the 529P using the included 19V wall charger connected to the DC-IN jack on the front panel. The display will indicate the charge voltage (19V) and the percentage charge remaining. To use the outputs while charging (pass-through), press and hold the power switch until the display indicates 5V. The outputs will now be switched on. If using the DC output, double click the power button to select the required voltage. Please note that in some configurations, charging the 529P at the same time as using it may result in an increase in audio noise. In such cases, remove the charger from the DC-IN and use the 529P on battery power only, recharging between uses. See pass-through charging section for more details.

## Outputs

To switch on the outputs, press and hold the power button for two seconds. Press and hold the power button for two seconds again to turn off the outputs. The power button switches all outputs on and off simultaneously. If no devices are drawing power from the outputs, the 529P will automatically switch off after 60 seconds. Auto switch-off occurs when output current drops below approximately 150mA.

## Pass-through charging

The 529P is a battery power supply and it's recommended to use it on battery power and recharge between uses. If the battery is low on charge and you do not have time to recharge it, you can connect the supplied 12V charger to the DC-IN while the battery is in use. It's not recommended to do this all the time as it may reduce the lifecycle of the battery cells. In some cases, charging the battery at the same time may result in an increase in noise.

## Use cases

### 1. Daisy chain power supply

Ensure that the 529P is switched OFF. Connect the yellow end of the DC power cable to DC-OUT on the 529P. The DC-OUT is center pin POSITIVE and most effects pedals are center pin NEGATIVE so you will need to use the polarity reversal adapter. Connect the black end of the DC cable to the red female end of the polarity reversal adapter. Connect the black male end of the polarity reversal adapter to the daisy chain cable and connect the daisy chain connectors to your pedals.

Before powering your pedals, you will need to set the DC output on the 529P to 9V. Temporarily unplug the cable from the DC-

OUT. Press and hold the power button until the display turns on. The output defaults to 5V. This is to prevent accidentally providing excessive voltage to your devices. Press the power button twice in quick succession to select the required voltage. Press the power button this way until the display shows 9V, then reconnect the cable to the DC-OUT. Your pedals will now be powered by the 529P at 9V.

### 2. Isolated power (with 529)

Using a single daisy chain cable is usually OK with most analog effects pedals, but many digital pedals can cause noise in the signal chain if they are connected this way. These types of pedals typically require an isolated power supply. The 529P can be used with the Mission 529 (purchased separately) to provide isolated outputs for your pedals from one of the USB A outputs.

Ensure that the 529P is switched OFF. Connect USB A OUT 1 or OUT 2 on the 529P to the USB IN on the 529. Connect your pedals to the 2.1mm DC outputs on the 529. Press and hold the power button on the 529P for 2 seconds until the display turns on. The blue LEDs on the 529 power outputs should illuminate. The 529 provides 4 x isolated 9V 150mA outputs, and 1 x 500mA output.

### 3. Isolated power (with 529X)

The 529P can be used with the Mission 529X (purchased separately) to provide isolated outputs for your pedals from the DC-OUT.

Ensure that the 529P is switched OFF. Connect the yellow end of the DC power cable to DC-OUT on the 529P. The DC-OUT is center pin POSITIVE and the 529X is center pin NEGATIVE so you will need to use the polarity reversal adapter. Connect the black end of the DC cable to the red female end of the polarity reversal adapter. Connect the black male end of the polarity reversal adapter to the 12V DC in on the 529X. The 529X provides 8 x isolated 9V outputs up to a maximum 1800mA.

### 4. USB-PD (with 529M)

The 529P can be used with the 529M to provide a second variable voltage DC output. Use the voltage selector on the 529M to select 5/6, 9 or 12V. Connect the 529M to the TYPE-C output on the 529P using a USB-C cable. The selected voltage will be present on the output of the 529M up to a maximum 3000mA.

### 5. NeuralDSP Quad Cortex

The 529P can be used to power the Neural DSP Quad Cortex. Expected battery life is approximately 4 hours.

Ensure that the 529P is switched OFF. Connect the yellow end of the DC power cable to DC-OUT on the 529P. The DC-OUT is center pin POSITIVE and the Quad Cortex requires 12V center NEGATIVE so you will need to use the polarity reversal adapter. Connect the black end of the DC cable to the red female end of the polarity reversal adapter.

Before connecting to the Quad Cortex Power input, you will need to set the DC output on the 529P to 12V. Press and hold the power button until the display turns on. The output defaults to 5V. This is to prevent accidentally providing excessive voltage to your device. Press the power button twice in quick

succession to select the required voltage. Press the power button this way until the display shows 12V, then connect the black male end of the polarity reversal adapter to the 12V DC power input on the Quad Cortex.

If the Quad Cortex does not power on. Check that you have correctly connected the DC power cable and polarity reversal adapter. Check that the display on the 529P show sufficient charge and indicates 12V on the DC output. **YOU MUST SET THE VOLTAGE TO 12V BEFORE CONNECTING THE DC OUTPUT TO THE QUAD CORTEX. DO NOT ATTEMPT TO POWER THE QUAD CORTEX AT ANY VOLTAGE OTHER THAN 12V.**

## 6. NeuralDSP Quad Cortex with additional pedals

The 529P can be used to power the Quad Cortex and a few additional effects pedals. There are two options depending on the type and number of additional pedals you need to power.

### Option 1 – Quad Cortex plus 4 pedals

This option powers the Quad Cortex PLUS 4 x 9V 150mA pedals.

Connect the Quad Cortex to the 529P DC-OUT as described in section 4. Connect a 529 (purchased separately) to one of the USB A outputs as described in section 2. Note that the 150mA outputs will be isolated. The 500mA output on the 529 will not be isolated. It's possible to use this output but there may be an increase in noise depending on what device is connected. For greater than 4 outputs and higher current pedals it's recommended to use option 2

### Option 2 – Quad Cortex plus 8 pedals

This option powers the Quad Cortex PLUS 8 x 9V 500mA pedals (16.8W maximum). This option requires the 529P plus a 529M and 529X (both purchased separately). Connect the 529X to the DC-OUT as described in section 3. Then connect the 529M to the TYPE-C output as described in section 4. Select the 12V setting on the 529M and connect the output of the 529M to the Quad Cortex power input.

## 7. Line 6 Pod, HX Stomp, and HX Effects

Connect the yellow end of the DC power cable to DC-OUT on the 529P. The DC-OUT is center pin POSITIVE and the Line 6 devices require 9V center NEGATIVE so you will need to use the polarity reversal adapter. Connect the black end of the DC cable to the red female end of the polarity reversal adapter. The power input jack on the Line 6 device is 2.5mm so you will need to use the 2.5mm adapter. Connect the black male end of the polarity reversal adapter to the black female end of the 2.5mm adapter.

Ensure that the power switch on your Line 6 device is switched OFF. Connect the red male 2.5mm end of the adapter to the 9VDC power input. Press and hold the power button on the 529P until the display turns on. The output defaults to 5V. This is to prevent accidentally providing excessive voltage to your device. Press the power button twice in quick succession to select the required voltage. Press the power button this way until the display shows 9V, then turn the power switch on the Line 6 device to ON.

If the device does not power on. Check that you have correctly connected the DC power cable, polarity reversal adapter and 2.5mm adapter. Check that the display on the 529P shows sufficient charge and indicates 9V on the DC output.

## 8. Line 6 with additional pedals

The 529P can be used to power Line 6 Pod, HX Stomp or HX Effects and a few additional effects pedals. There are two

options depending on the type and number of additional pedals you need to power.

### Option 1 – Line 6 plus 4 pedals

This option powers the Line 6 device PLUS 4 x 9V 150mA pedals.

Connect the Line 6 device to the 529P DC-OUT as described in section 7. Connect a 529 (purchased separately) to one of the USB A outputs as described in section 2. Note that in this configuration the 500mA output on the 529 will not be isolated from the Line 6 device. It's possible to use this output but there may be an increase in noise depending on what device is connected. For greater than 4 outputs and higher current pedals it's recommended to use option 2

### Option 2 – Line 6 plus 8 pedals

This option powers the Line 6 device PLUS 8 x 9V 500mA pedals (16.8W maximum). This option requires the 529P plus a 529M and 529X (both purchased separately). Connect the 529X to the DC-OUT as described in section 3. Then connect the 529M to the TYPE-C output as described in section 4. Select the 9V setting on the 529M and connect the output of the 529M to the Line 6 power input.

## 9. Other devices

The 529P can be used to power or recharge many devices such as laptop computers, smart devices, small audio amplifiers and desktop audio equipment that use USB or DC power. A set of adapter cables and connectors are included. Make sure to use the correct adapter, voltage and polarity for the device.

## Specifications

Battery type: Lithium polymer

Capacity: 25000mAh

DC input: 14V @ 2A

USB C PD Output: 5V/9V/12V 3A max

USB A Outputs: 5V 3A max

DC Output: 5V/8.4V/9V 3A max, 12V/16V/20V 4.5A max

## Safety Instructions

Clean only with a dry cloth. Never use water, soap or chemicals

Do not use near water

Do not drop, pierce or compress the enclosure

Do not use near any heat sources or in direct sunlight

Recharge once every three months if not used

Be careful to use the correct polarity and voltage for your powered device

## Scan QR Code for more information

<https://missionengineering.com/support/529P-electronic-user-guide>