JET Stream

Overview, Features, and how to use the JET Stream

- Overview
  - Description & Features
  - Dimensions & Power Requirements
- Operating the JET Stream
  - Connecting Power to the JET Stream
  - Connecting to the Inputs of the JET Stream
  - Connecting to the Outputs of the JET Stream
- Tips & Tricks
  - Getting the Most Power From your JET Stream
  - Speaker Cabinet Pairing w/ the JET Stream
  - Setting Up a Dual Mono Rig
  - Convert a Mono Cabinet to Stereo
- FAQ
  - Is a Power Supply Included w/ the JET Stream?
  - I Am Getting Some Noise When Using the JET Stream
  - How Loud Can the JET Stream Get?
  - How Quiet Can the JET Stream Get?
  - The Power Amp Keeps Cutting Out. What Can I Do?
  - Why is the JET Stream Power Listed as RMS Values?

Overview

Basic overview and features of the JET Stream

Overview

Description & Features

The JET Stream is a true 100 watt stereo power amp made specifically for use with modern amp modelers.

Using a modeler when playing out live and wishing you had stage volume to support your playing? How about needing to move some air during band practice? Playing in a venue without a PA? Sick of dialing in your tones using headphones or studio monitors? Needing to practice at “apartment” levels but wishing you could have the tone of a cracked amp? Needing to practice while your baby is sleeping, in the same room… Now you can do all of these things with the power and flexibility of the JET Stream.

Whether you use a full pedalboard with a modeler (Tonex One, Kemper Player, UAFX, ACS1, Iridium, etc.) or an All-In-One modeler like the Quad Cortex, Kemper Stage, or Line 6 Helix the JET Stream is for you.

Grab your favorite guitar or bass cabinet, connect the JET Stream between your modeler and the cabinet, and you are ready to rock!

- True RMS 100 Watt Class D Power Amp
- Stereo Inputs & Outputs
- Inputs Rated for Full Line Level Signals (1 Volt RMS / 0 dB)
- XLR & ¼” Combo Input Connectors
- Balanced XLR or ¼” TRS Inputs
- Unbalanced ¼” TS Inputs
- SpeakON Type Output Connectors
- Ground Lift Switch
- Master Volume Control
- 36V 4A **Power Supply Included**

Overview

Dimensions & Power Requirements

Dimensions are 5.75" wide by 3.65" deep and 2.35" tall

The JET Stream operates off a 36 volt 4 amp center positive DC power supply ***which is provided*** with the JET Stream. Should you have the need to lower the output power of the JET Stream, you can use a 24 volt 4 amp center positive DC power supply (not provided by JET Pedals).

*Never apply any voltage higher than 36 volts which will result in damage to the JET Stream and voiding the warranty.

Operating the JET Stream

How to use the JET Stream

Connecting Power to the JET Stream

Using the provided DC power supply/adapter, first connect the 2.5mm barrel connector to the JET Stream power amp. Secondly connect the grounded 120V plug into an AC outlet. Connecting the AC connector first may cause a slight spark when plugging in the 2.5mm barrel connector. This is due to the large input capacitance for the preamp section of the JET Stream.

Connecting to the Inputs of the JET Stream

The input connectors are XLR & ¼” combo jacks which can accept balanced and unbalanced input signals.

When your speaker cabinet is further away than 15’ from your modeler, we recommend using either ¼” TRS or XLR balanced cables. This will reduce any stray noise that may be picked up on the input cables. Make sure your modeler is capable of sending a balanced signal to eliminate any stray noise.

If your speaker cabinet is within 15’ of your modeler, standard ¼” mono (TS) cables can be used to connect to the JET Stream. Running mono/unbalanced cables longer than 15’ run the risk of losing signal integrity and possible high end frequency roll off may occur.

* The use of standard ¼” unbalanced cables will have a -6 dB signal loss at the input preamp of the JET Stream compared to using balanced XLR or TRS cables.

Connecting to the Outputs of the JET Stream

The output connectors are industry standard SpeakON type jacks. These types of connectors use heavy gauge speaker wires that can handle the high output wattage the JET Stream is capable of producing. Signal cables typically have ¼” connectors which use smaller gauge wires. Using these types of cables to power your speaker cabinets may result in damage to the JET Stream, your speakers, cables, connectors, etc.

*Only use speaker cables of 14awg or larger with the outputs of the JET Stream

The output power of the JET Stream varies depending on the impedance of the connected speakers/cabinet. Below are the power ratings for each impedance connected to the JET Stream:

- 50 watts with a 4 ohm load connected (100W stereo)
- 25 watts with an 8 ohm load connected (50W stereo)
- 12 watts with a 16 ohm load connected (25W Stereo)

*Never exceed the power rating for the connected speakers / speaker cabinet. Doing so may cause damage to your speakers and/or cabinet.

For example, a single 1x12” speaker cabinet loaded with an 8 ohm Celestion Greenback is rated for 25 watts. Using one output of the JET Stream is a perfect match as the JET Stream will produce 25 watts with an 8 ohm load connected.

You can also have a 2x12” speaker cabinet loaded with two Celestion Greenbacks (rated at 25 watts each) with a total impedance of 4 ohms, this will also be a perfect match. Even though the JET Stream will produce 50 watts and both speakers are only rated for only 25 watts each, the two speakers will evenly share the load across both speakers. Allowing for 25 watts of power to be sent across both speakers evenly.

Tips & Tricks

Getting the most out of your JET Stream

Tips & Tricks

Getting the Most Power From your JET Stream

Remember this “Primary Rule” when working with Class D power amps like the JET Stream. “The larger/louder the input signal is, the larger/louder the output signal will be”. Also the opposite is true, “The smaller/quieter the input signal is, the smaller/quieter the output signal will be”.

Because of this “Primary Rule” we have specifically designed the preamp section of the JET Stream to accommodate full Line Level signals (1V RMS or 0dB) before any clipping will occur within the preamp and power amp sections of the JET Stream.

Most every amp modeler on the market today has an Output Volume control which usually outputs Line Level signals (up to 0dB). Make sure to crank the output on your modeler to get the maximum output from the JET Stream.

Tips & Tricks

Speaker Cabinet Pairing w/ the JET Stream

	Speakers Rates < 20 Watts	**Speakers Rates < 30 Watts**	**Speakers Rated > 50 Watts**
Speaker Cabinet Type	Celestion Blue (15W) Weber Blue Dog (15W) Weber 12A125 (20W) Vintage Jensen P12N (20W)	Celestion Greenback (25W) Celestion G12H (30W) Weber 12A125 (30W) Jensen P12Q (40W)	Celestion V30 (60W) Celestion Creamback (75W) Jensen P/C12N (50W) Electro-Voice EV12L (200W)
1x12 16 ohm	✓	✓	✓
1x12 8 ohm	✗	✓	✓
2x12 8 ohm	✓	✓	✓
2x12 4 ohm	✗	✓	✓
4x12 16 ohm	✓	✓	✓
4x12 8 ohm	✓	✓	✓
4x12 4 ohm	✓	✓	✓

Tips & Tricks

Setting Up a Dual Mono Rig

Not running a stereo rig? Not a problem! Get twice the output power of the JET Stream by running dual mono out to two separate speaker cabinets! Take advantage of the dual power amps inside the JET Stream by splitting your mono input signal and running into both inputs. Yes you can use a passive Y-Cable / splitter however you will notice signal loss once split (don’t forget the “Primary Rule”). We recommend using the MBFR Multi Buffer from our good friends at Pinstripe Pedals:

https://pinstripepedals.com/product/mbfr-multi-buffer/ This takes a single input and splits it into two separate outputs without any signal loss. Great for getting the most power out of your JET Stream.

Tips & Tricks

Convert a Mono Cabinet to Stereo

Nowadays many speaker cabinets come prewired to run in either mono or stereo. However not all cabinets have this option, so converting a mono 2x12 or 4x12 cabinet to stereo can be an easy DIY project. In fact you can buy a prewired combo jack to easily modify your cabinet to stereo. Watch this video for more details on how easy this can be done at home: https://youtu.be/81J-4q0CGmE?si=wlaQ4FDagsQDY03Y

FAQ

Frequently asked questions

FAQ

Is a Power Supply Included w/ the JET Stream?

Yes, we provide a 36v 4 amp DC power supply with every JET Stream order.

FAQ

I Am Getting Some Noise When Using the JET Stream

You could be getting a ground loop from the input signal and the power amp, try lifting the Ground Lift switch to eliminate the ground loop.

FAQ

How Loud Can the JET Stream Get?

Loud enough to fill an auditorium or outdoor stage with ease. The JET Stream can go head to head with a full 100W tube amp and will have comparable output volumes.

FAQ

How Quiet Can the JET Stream Get?

The Master Volume knob is so precise you can dial back your cranked amp tones to literally whisper quite. The amp can be so quiet you won’t be able to hear the amp over the sound of the strings being strummed on an unplugged electric guitar.

FAQ

The Power Amp Keeps Cutting Out. What Can I Do?

The JET Stream has an internal protection circuit which keeps the amp from clipping too much and from overheating. When connecting lower impedance speaker cabinets and/or multiple speaker cabinets to the JET Stream, it will have to work harder and can go into protection mode. If you run into this scenario, either reduce the input signal going into the inputs of the JET Stream or turn down the Master Volume knob to reduce the stress on the power amp.

FAQ

Why is the JET Stream Power Listed as RMS Values?

RMS (Root Mean Square) watts tells you how much continuous power a speaker, or amplifier can handle or put out. It's always lower than the "peak" rating, but RMS is the real deal—it shows you the sustained capability. Basically, RMS power is the reliable average power a speaker can handle without getting distorted or sounding bad over time. Since most modern speakers are rated in RMS wattage, this makes it much easier to match the perfect speaker/cabinet configuration to the JET Stream.