

Powerwerks™

PW6EFX Owner's Manual



Congratulations on the purchase of your Powerwerks PW6EFX

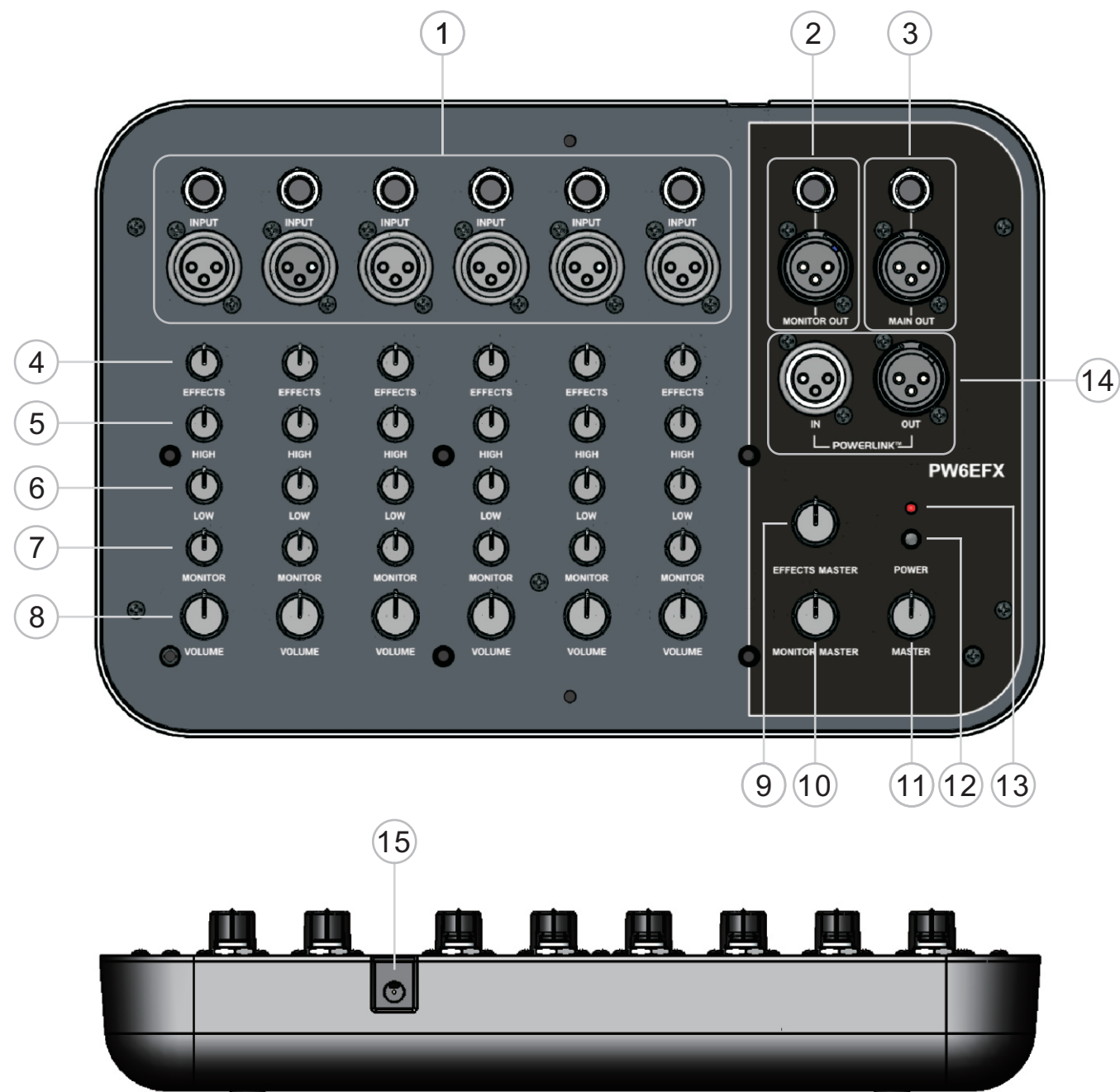
Your PW6EFX Model draws on decades of electronic design and manufacturing experience at Powerwerks. This model was built from the ground up to offer useful features, high signal-to-noise ratio, and reliable performance.

Inside this manual, you'll find valuable information about your product's controls and specifications.

Being familiar with its features will help you effectively use your Powerwerks Mixer.

We wish you many years of enjoyment with your PW6EFX.

CONTROLS AND FEATURES OVERVIEW

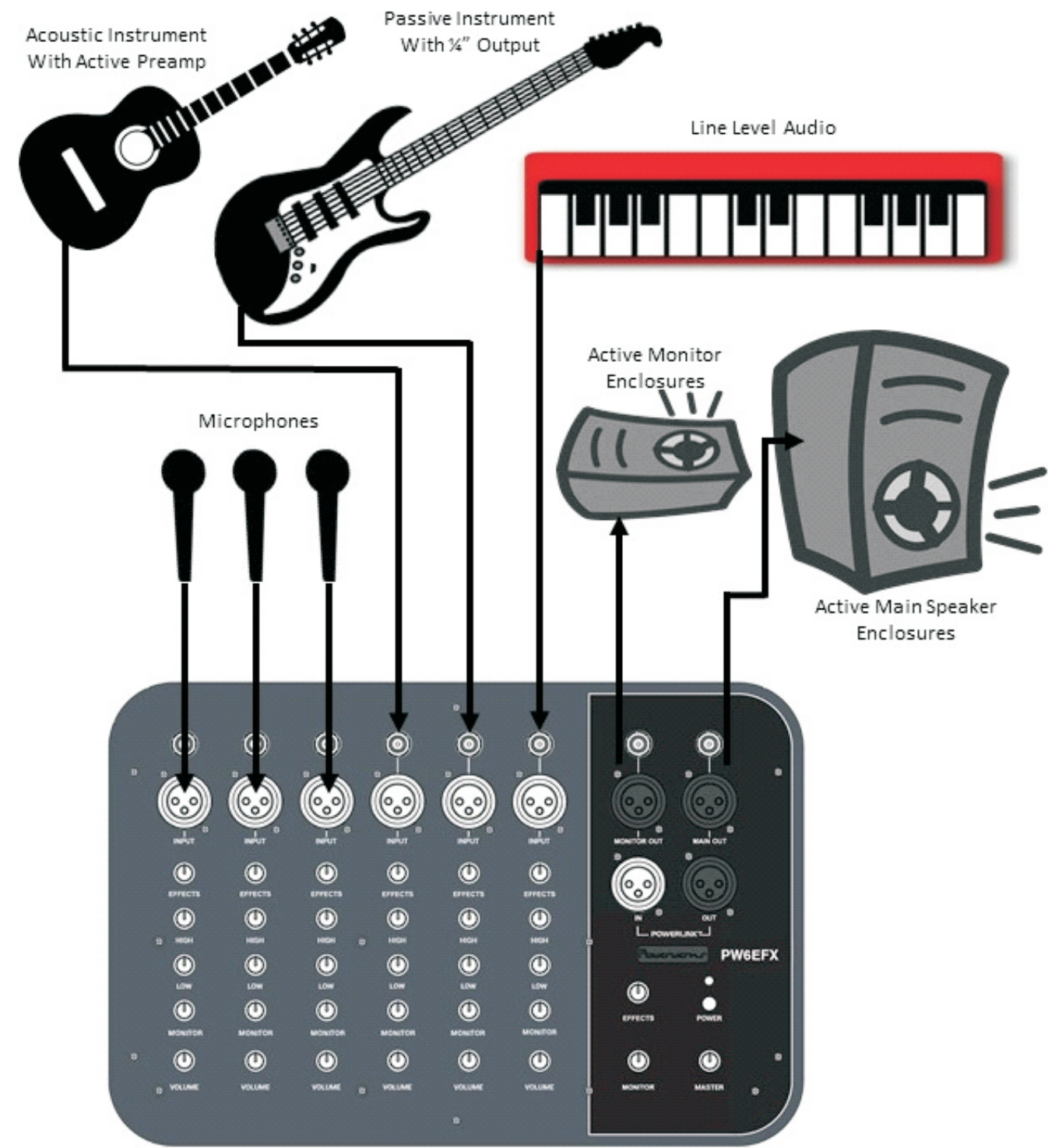


- 1. INPUT:** This is where you may plug in microphones, instruments, keyboards, drum machines and other audio devices.
- 2. MONITOR OUT:** This is a Balanced XLR or Unbalanced TRS 1/4-inch line out used to send a summed mix of the INPUTS to other devices such as mixers, powered speakers, powered monitors or recording devices.
- 3. MAIN OUT:** This is a Balanced XLR or Unbalanced TRS 1/4-inch line out used to send a summed mix of the INPUTS to other devices such as mixers, powered speakers, powered monitors or recording devices.

- 4. EFFECTS:** Use these controls to adjust the volume level of Digital Reverb effects for this individual channel.
- 5. HIGH:** Turned clockwise, this control increases treble frequencies to produce clearer, crisper sound. Turn counterclockwise to make the sound softer and less bright.
- 6. LOW:** Determines the emphasis of bass frequencies. Turning this knob clockwise creates a deeper, warmer tone. If you need a brighter sound, reduce the bass by turning counterclockwise.
- 7. MONITOR:** Use these controls to adjust the MONITOR volume level of each channel and the relative balance between them to the MONITOR out connectors.
- 8. VOLUME:** Use these controls to adjust the volume level of each channel and the relative balance between them to the MAIN out connectors.
NOTE: HIGH, LOW, and VOLUME controls are vertically aligned with the INPUTS they affect.
- 9. EFFECTS MASTER:** Use this control to adjust the overall volume of the Digital Reverb to the MAIN Outputs.
- 10. MONITOR MASTER:** Use these controls to adjust the overall MONITOR volume level of each channel and the relative balance between them to the MONITOR out connectors.
- 11. MASTER:** Use this controls to adjust the overall volume of the mixer.
- 12. POWER:** This switch activates power to the mixer.
- 13. POWER INDICATOR LIGHT:** Indicates that the power switch is in the “ON” position. When light is illuminated, the unit is ON.
- 14. POWERLINK:** Use the POWERLINK circuit to link multiple PW systems using standard microphone cables. This feature combines the channels in all linked units while each MASTER control operates independently.
- IN:** This balanced XLR Jack connects to the POWERLINK OUT from another PW unit using a standard mic cable. Channels from both PW units are summed together. Use the channel volume controls to balance the mix between channels (If a channel is not used turn the volume all the way down). MASTER controls the overall level of mix sent to MAIN OUT of this PW6EFX. It does not affect the volume of linked units.
- OUT:** This balanced XLR Jack connects to the POWERLINK IN from another PA unit using a standard mic cable. Channels from both units are summed together. Use the channel volume controls to balance the mix between channels (If a channel is not used turn the volume all the way down). MASTER volume controls the overall mix through this PW6EFX. It does not affect the volume of linked units. This jack may also be used to connect the PW6EFX unit to a power amp with a balanced line.
- 15. POWER INPUT:** Connect the included 18Vdc wall adapter here.

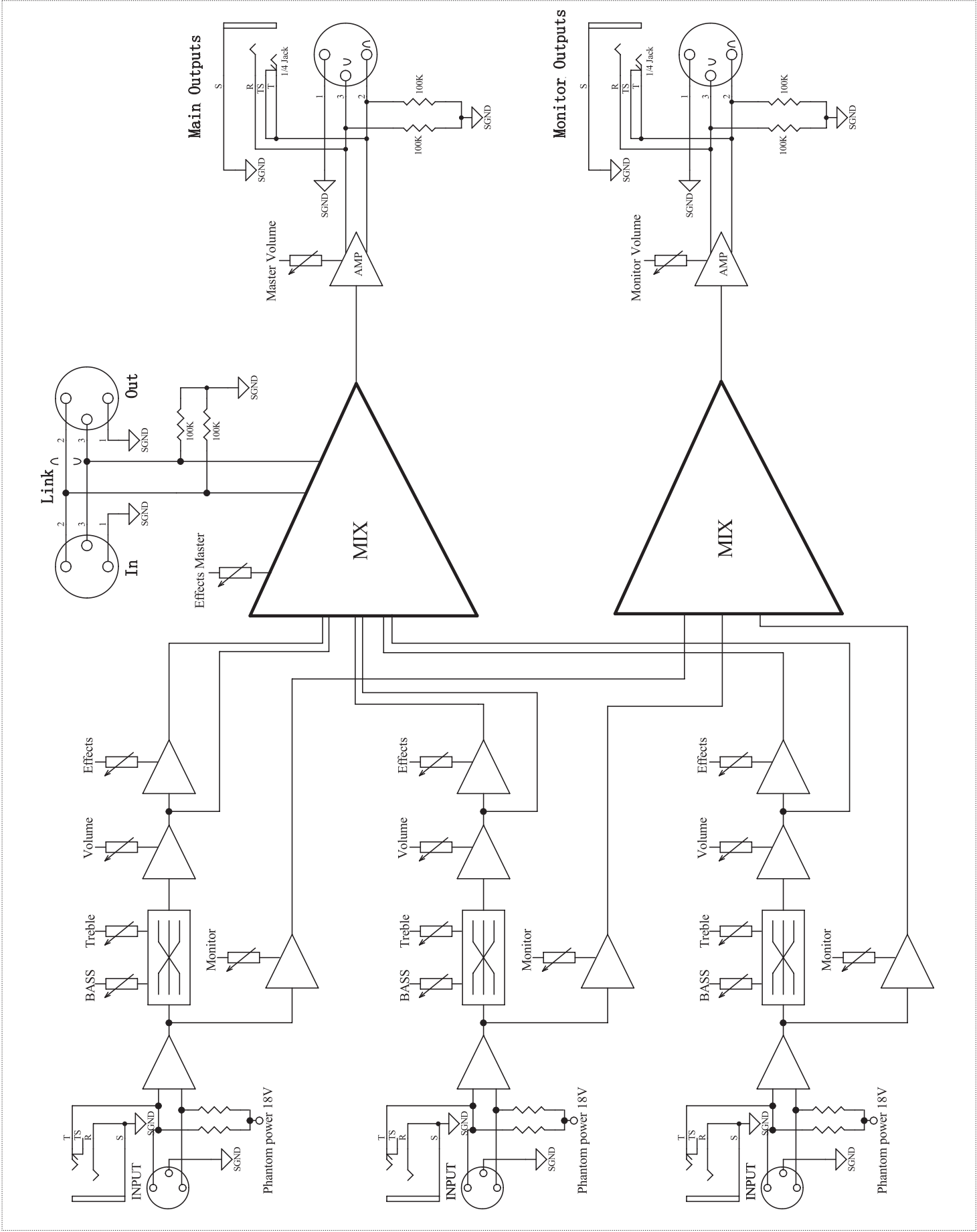
HOOKUP DIAGRAM

Here are some examples for setting up the PW6EFX to enhance your live sound.



PW6EFX Specifications		
Accepted Inputs	Mic XLR Balanced, Line Level 1/4" Unbalanced	Normal Line Level of -10dbV
Frequency Response	48Hz to 23kHz	Channel volume set at 3/4 full scale
Signal to Noise Ratio	74 db	All controls set at maximum, Output set at maximum, unclipped level, Bandwidth 22k
System Gain	21 db	Line input to master output
	38 db	MIC input to master output
Channel EQ (High / Low)	2.6k and above, 0.9kHz and below	Low Boost/Cut +- 9.8 db @ 63Hz
		High Boost / Cut +- 7.0 db @ 8.0 Hz
Power Link	IN: Accepts a pre-master volume signal from another PowerWerks device equipped with the PowerLink feature, or a line-level input from another audio product.	Recommended use: Daisy- changing to other PowerWerks products with the PowerLink feature. When PowerWerks products are linked using the PowerLink feature, the channels from all linked units will send signal to all PowerWerks products. Meaning if two PW6EFX units were linked together, the sum of all channels (12 in this example) are linked together to create a 12-channel mixing system.
	OUT: Exports a pre-master volume signal to another PowerWerks product equipped with the PowerLink feature.	
Phantom Power	18V DC	Available on all XLR MIC inputs
Power Requirements	18V DC	Wall Power Adaptor Included
Product Weights & Dimensions	Weight 3.5 lbs. (Including power supply)	Dimensions: 12" W x 2.5' H x 8" D

BLOCK DIAGRAM



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