POWER AMPLIFIER
Single Color / RGB

PA

POWER AMPLIFIER

IlluminFx's PA Power Amplifiers are used with the LEVEL SELECT, COLOR SELECT and COLOR SELECT PLUS systems.

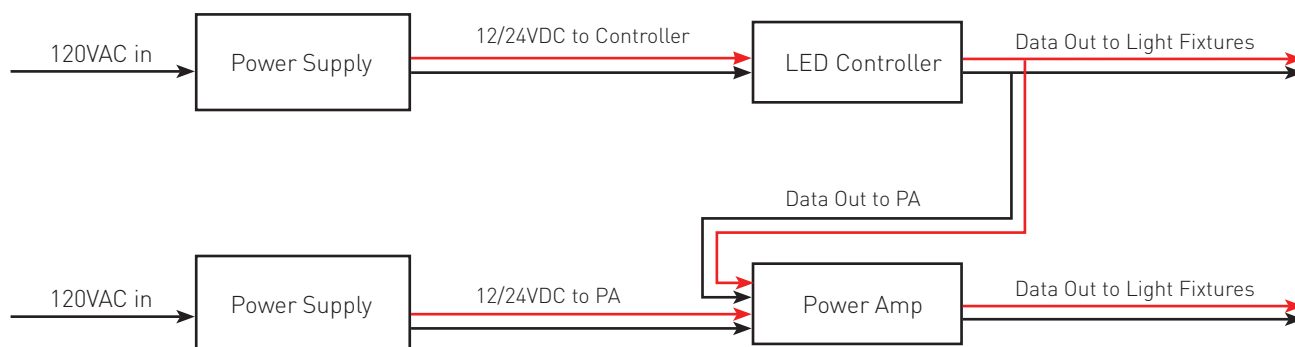### WHAT THEY DO
Power amplifiers take the signal from the lighting controller (LEVEL SELECT, COLOR SELECT, or COLOR SELECT PLUS) and dupicate that signal to additional lighting fixtures. It makes it so that a job with more than one power supply can have all the LED fixtures doing the same thing at the same time.

WHEN THEY ARE NEEDED
Power amplifiers are needed when the wattage of the light fixtures on a job exceeds the wattage limits of a single power supply or of the lighting controller itself (LEVEL SELECT, COLOR SELECT or COLOR SELECT PLUS). Basically, if more than one power supply is needed to power the entire system, then a power amplifier is necessary.

SPECIFICATIONS

Voltage	5~24VDC
Peak Output Power	144W@12V | 288W@24V
Peak Output Current	12 Amps
Efficiency	>95%
Input Voltage Swing	±3V
Components	SMD parts | Gold plated double sided FR-4 PCB
Certifications	RoHS
Cable Length	4.33"
Body Size	1.3" x 0.5" x 0.2"
Working Temp	-22˚-158˚F
LED Connector	**SINGLE COLOR** Input Power : Red / Black Input Data : Red / Black Output Data : Red / Black **RGB** Input Power : Red / Black Input Data : Red / Green / Blue / Black Output Data : Red / Green / Blue / Black
Part Numbers	**SINGLE COLOR** : PA-1032WS **RGB** : PA-103WF

SAMPLE WIRING DIAGRAM

120VAC in → Power Supply → 12/24VDC to Controller → LED Controller → Data Out to Light Fixtures

Data Out to PA

120VAC in → Power Supply → 12/24VDC to PA → Power Amp → Data Out to Light Fixtures