

FIT SERIES

LEAN & LITE BEAST AMPLIFIER



- ◆ FIT 4X800: 800Wx4 @ 4ohms, 1600Wx2 @8ohms(Bridged).
- ◆ FIT 2X1000: 1000Wx2 @ 4ohms; 2000W @ 8ohms(Bridged)
- ◆ FIT 2X3000: 3000Wx2 @ 4ohms; 6000W @ 8ohms(Bridged)
- ◆ 1U height 9" width of standard cabinet, compact size, light weight and portable.
- ◆ Class D power amplifier module provides 92% high working efficiency and output high power density.
- ◆ Regulated-Switch Mode Power Supply(R-SMPS) ensures constant power output at all time.
- ◆ The Active Power Factor correction(PFC) ensure the amps can work in working voltage ranges from 90V to 260V.
- ◆ Precision Power, Signal, CLIP, PROT to monitor performance
- ◆ Independent limiters per channel offer reliable protection against overload and distortion.
- ◆ Independent DC and thermal protection on each channel automatically protects amplifier and speaker without shutting down the show.
- ◆ Comprehensive protection scheme including current, voltage, DC, temperature, short circuit and open load warnings
- ◆ "Front to rear" ventilation system avoid uncomfortable feelings when operate the amps from front panel.
- ◆ High quality electronic elements and extraordinarily robust construction ensure long life span.
- ◆ Efficient cooling system dissipates more heat for extended peak output
- ◆ Designed by AERONS INDIA, India.

THE NEW BENCHMARK FOR HIGH EFFICIENCY POWER AMPLIFIER.

Aerons's new FIT series offers brand new flexibility and high efficiency. Featuring mature D class technology, in a cost-effective 1U rack height, designed for small to middle-range sound system. The use of the Power Factor Correction (PFC) shows Aerons's target in energy saving, PFC will hugely improve performance and contain mains current draw and consumption. As the newest addition to Aerons's touring line of amplifier, FIT series is launched for requirements of cost-effective and high-performance. Available in both 2-channel and 4-channel, with per channel power ranges from 500W to 1800W.

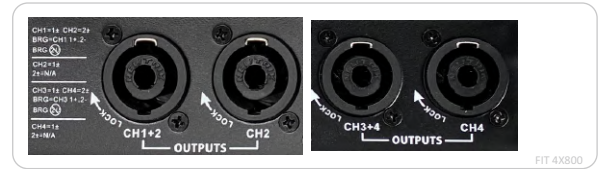
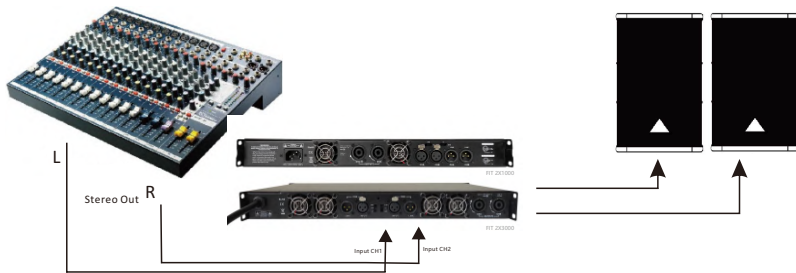
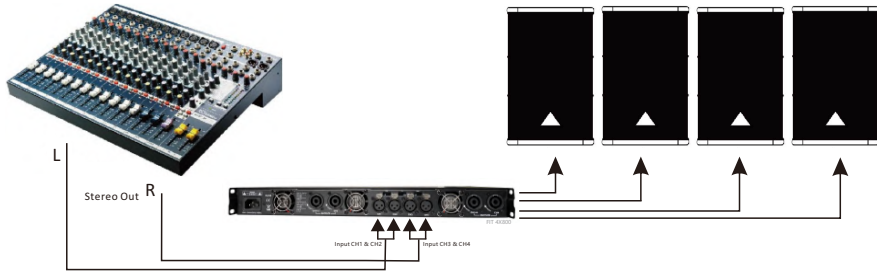
Features

- ◆ Two-stage power models available in 2-channel and 4-channel.
- ◆ Class D amp modules ensures over 92% high working efficiency.
 - Lower power consumption.
 - High power density.
 - Lower heat dissipation.
 - Lower operating temperature.
- ◆ Regulated-Switch Mode Power Supply (R-SMPS) ensures constant power output at all times
- ◆ Multiple protection features: DC/Short Circuit/High Temp/Overload/Soft start up/CLIP/VHF
- ◆ Power Factor Correction (PFC) solve most concerns in working voltage.
 - Stable performances and independent from the mains (very useful in countries where the mains quality is below standards)
 - Lighter weight
 - Higher reliability
 - Reduced circuit components stress by supplying well-regulated DC
 - World Wide Range Operation (from 90 to 265 Vac, 50/60 Hz)
 - Significant reduction in required electrical supply capacity
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 - Cooler operation for a reduced air conditioning necessities in fixed installations
 - Significant saving of energy cost
- ◆ Clip limiter circuit can work independently of the impedance load. The limiter range is much wider and smoother. It can avoid square wave caused by output level. Even with much stronger music signal, there is no clipping. This can effectively protect the whole sound system.
- ◆ The slew rate is more than 20V/μs. Again, this ensure very nice sound. Even for the most fast and strongest music signal. It can deliver well without losing any signal.
- ◆ Routing mode selector (stereo/bridge/parallel) on the rear panel
- ◆ High dynamic range and low distortion, sound transparent and extensive.
- ◆ A smaller, lighter, and more powerful amplifier is easier to transport.
- ◆ Thanks to the power density fewer units can be specified, with a direct effect on running costs and cooling costs.

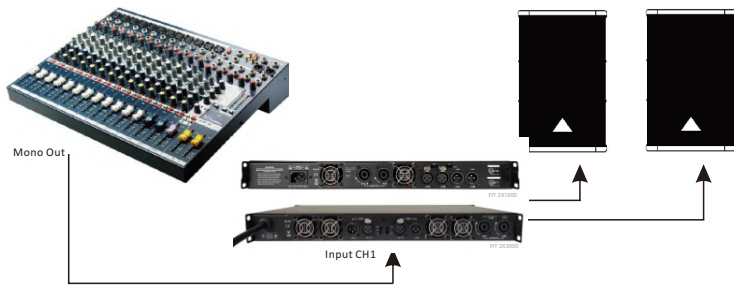
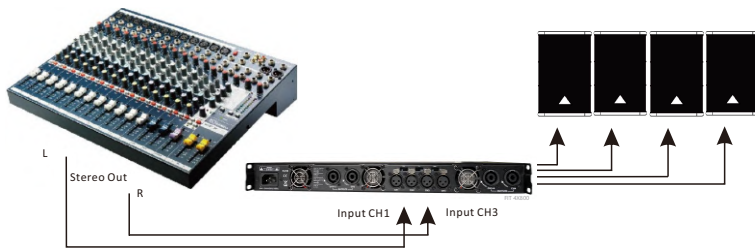
Applications

- ◆ Small to middle-sized installation and touring applications
- ◆ Venues with high sound quality and power density requirements
- ◆ Sub woofer amplification on continuous full-power operation

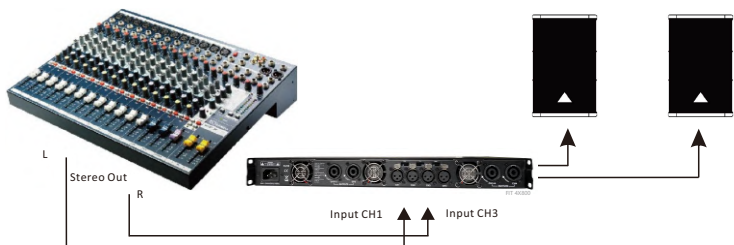
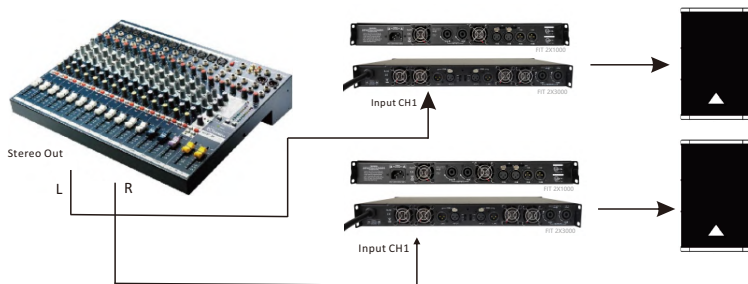
◆ Stereo Mode



◆ Parallel Mode



◆ Bridge Mode



SPECIFICATIONS

Rated Power(1 KHz, THD+N≤0.1%)

FIT 4X800

8Ω stereo	4 x500W
4Ω stereo	4x800W
8Ω bridge	2x1600W

FIT 2X1000

8Ω stereo	2x600W
4Ω stereo	2x1000W
8Ω bridge	2000W

FIT 2X3000

8Ω stereo	2x1800W
4Ω stereo	2x3000W
8Ω bridge	6000W

Filter Capability

FIT 4X800	1500μF/100Vx12
FIT 2X1000	1500μF/100Vx4
FIT 2X3000	820μF/180Vx30

Damping Factor

FIT 4X800	≥600
FIT 2X1000	≥800
FIT 2X3000	≥1500

Product Dimension(WXHXD)

FIT 4X800	483mmx251mmx44mm
FIT 2X1000	483mmx251mmx44mm
FIT 2X3000	483mmx251mmx44mm

Net Weight

FIT 4X800	4.8KG
FIT 2X1000	4.2KG
FIT 2X3000	6.5KG

Gross Weight

FIT 4X800	6.0KG
FIT 2X1000	5.4KG
FIT 2X3000	7.7KG

Protection

DC protection	✓
Short circuit protection	✓
High temperature protection	✓
Output overload protection	✓
Soft start protection	✓
Clip limit protection	✓
VHF protection	✓
Progressive volume protection	✓

Frequency Response(+0/-0.5dB, 1/8 W into 8ohms)

20Hz-20KHz

S/N ratio ≥106dB

Input Sensitivity 0.775V/1V/32dB

Circuit Topology Class D

Connectors(each channel)

Input connectors 3 pin XLR, LINK

Output connectors SpeakON

Mode Stereo/Parallel/IBridge

Fan speed regulation Auto-speed

Channel separation ≥70dB
(8Ω load, 1KHz and below)

Slew Rate 20V/uS

Input Impedance

Balanced	20K
Unbalanced	10K

Working Voltage PFC, 90~265V