



Full Fat Audio design and manufacture high performance audio power amplifiers for professional audio.

Full Fat Audio power amplifier technology overview:

FFA power amplifiers use our now proven and reliable high frequency switch modulation power supply (SMPS). This type of power supply technology is space saving and also light weight. SMPS offer lower power consumption compared to traditional low frequency power supply technologies. Our rugged SMPS is specified with massive bulk storage capacitance to ensure no drop in audio performance especially when tasked to drive high current 2 Ohm loads.

Our 'bass engines' the FFA-6000, FFA- 8000 and FFA-10000 feature dual independent SMPS. These amplifiers are especially suited to the most demanding bass applications. We believe the dual mono approach is the best way to achieve ultimate bass performance.

FFA Class D Pulse width modulation (PWM) amplifiers convert mains power highly efficiently and are the ideal partner for our power supply. The amplifier stage produces far less wasted heat than a conventional power amplifier so does not require massive heat sinking and a large bulky supporting chassis. Our SMPS uses a high frequency foil wound transformer which still allows high current demands but is vastly smaller than a traditional low frequency transformer. We design our amplifiers with the knowledge and experience that they will be used in high thermal conditions and the most demanding environments. FFA amplifiers are compact power packs with rugged mechanical construction to protect the electronics to ensure long service. Our amplifier output stage uses the state of the art MOSFET power devices which reliably and efficiently ensure high current on demand. Our careful consideration to circuit design ensures high quality sound amplification.

Full Fat Audio FFA-10000 : Dual power dual mono professional audio amplifiers



8 Ohms 1500W, 4 Ohms 3000W, 2 Ohms 5000W

Ideally suited for driving very high output bass and sub bass loud speakers or high power full range systems. Designed to drive sustained, very high output audio into 2 Ohm loads.

Featuring FFA propriety Class D PWM amplifiers. These are partnered with FFA high current switch mode PSU technology. Massive bulk storage capacitance per channel ensures continuous high power deliver to the load. The FFA-10000 is dual mono - each channel is totally independent. FFA dual mono power amplifiers are mains supply power efficient and operate cool even in the most demanding environments. Mechanical construction is tour grade with aluminium used throughout the chassis design. This provides a robust and rigid but lightweight housing for the electronic systems.

Features at a glance

- 2 x 5000 Watts at 2 Ohms
- FFA Class D PWM amplifiers
- Power supply soft start
- High thermal headroom
- Weight - 12kg
- Dual mono power amplifiers
- Clip limiter
- 5 year factory warranty
- Hand constructed and designed in England
- Switch mode power supply
- Power efficient
- 2 Ohm drive
- All aluminium construction
- Dual power supply

Suitable Applications

Very high power output amplifiers ideal for the most demanding bass and sub bass reinforcement.

FFA-10000 Large 2x18" 21" 24" very high power bass systems – 2 ohm drive

Full Fat Audio FFA-8000: Dual power dual mono professional audio amplifiers



2 x 4000 Watts at 2 Ohms

Ideally suited for driving very high output bass and sub bass loud speakers or high power full range systems. Designed to drive sustained, very high output audio into 2 Ohm loads.

Featuring FFA propriety Class D PWM amplifiers. These are partnered with FFA high current switch mode PSU technology. Massive bulk storage capacitance per channel ensures continuous high power deliver to the load. The FFA-8000 is dual mono - each channel is totally independent. FFA dual mono power amplifiers is mains supply power efficient and operate cool even in the most demanding environments. Mechanical construction is tour grade with aluminium used throughout the chassis design. This provides a robust and rigid but lightweight housing for the electronic systems.

Features at a glance

- 2 x 4000 Watts at 2 Ohms
- FFA Class D PWM amplifiers
- Power supply soft start
- High thermal headroom
- Weight - 12kg
- Dual mono power amplifiers
- Clip limiter
- 5 year factory warranty
- Hand constructed and designed in England
- Switch mode power supply
- Power efficient
- 2 Ohm drive
- All aluminium construction
- Dual power supply

Suitable Applications

General purpose bass amplifier used anywhere high quality bass reinforcement is required.

Suitable Applications: Small low mid or smaller bass cabinets

2x12", 2x 15", 2x18" – 2 Ohm drive

Full Fat Audio FFA-6000: Dual power dual mono professional audio amplifiers



2 x 3000 Watts at 2 Ohms

Ideally suited for driving very high output bass and sub bass loud speakers or high power full range systems. Designed to drive sustained, very high output audio into 2 Ohm loads.

Featuring FFA proprietary Class D PWM amplifiers. These are partnered with FFA high current switch mode PSU technology. Massive bulk storage capacitance per channel ensures continuous high power deliver to the load. The FFA-6000 is dual mono - each channel is totally independent. FFA dual mono power amplifiers are mains supply power efficient and operate cool even in the most demanding environments. Mechanical construction is tour grade with aluminium used throughout the chassis design. This provides a robust and rigid but lightweight housing for the electronic systems.

Features at a glance

- 2 x 3000 Watts at 2 Ohms
- FFA Class D PWM amplifiers
- Power supply soft start
- High thermal headroom
- Weight - 12kg
- Dual mono power amplifiers
- Clip limiter
- 5 year factory warranty
- Hand constructed and designed in England
- Switch mode power supply
- Power efficient
- 2 Ohm drive
- All aluminium construction
- Dual power supply

Suitable Applications

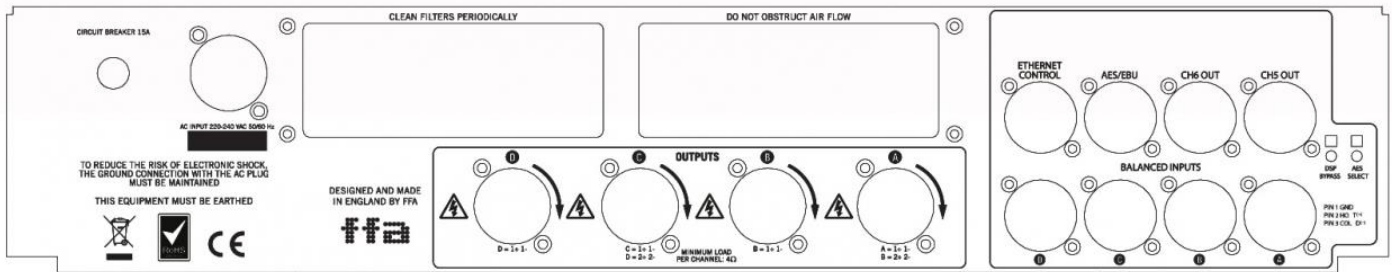
General purpose bass amplifier used anywhere high quality bass reinforcement is required.

Suitable Applications: Small low mid or smaller bass cabinets

2x12", 2x 15", 2x18" – 2 Ohm drive

Full Fat Audio FFA-6004 G2 DSP

Four channel amplifiers feature powerful digital signal processing (DSP) - 4 x 800W 8 Ohm, 4 x 1500W 4 Ohm



FFA Generation 2 DSP 4 channel amplifiers feature powerful digital signal processing (DSP). The DSP controlled amplifier provides a cost effective solution for sound system design and can be used for installation or temporary sound systems or any high quality amplified audio requirement. The system is controlled by software called FATWARE. The software is intuitive to use and offer the user a toolbox of audio functions to allow many different systems to be designed.

The FFA-6004 G2 DSP amplifier has 4 analogue audio input's which can be switched to allow connection of AES/EBU signals. Unusually there are 6 audio output channels, 4 assigned to the four channels within the amplifier and 2 aux outputs connected to a pair of male XLR connectors on the rear of the amplifier. These extra processed outputs can be used to drive any other amplifier channels in the system design.

Complex systems can be designed and signals can be routed as required with a signal matrix.

The DSP has powerful dynamics processors which have fully specified compressor/limiters on each audio input. These could be used for system protection against overdrive and also for environmental noise considerations. Each input and output has 2 bands of dynamic EQ in addition to parametric eq on each input and output.

The DSP is accessed via an Ethercon connector on the rear panel of the amplifier and connected using a CAT5 Ethernet cable direct to a personal computer or via an Ethernet Hub or router. The DSP is password protected and allows the designer to keep interference from unauthorised persons whom may change parameters and either damage the loudspeaker system or exceed set enviromental noise levels.

Features at a glance

- 4 x 1500 Watts @ 4 Ohms
- compressor limiter on each input
- 6 band parametric EQ per input, 8 band parametric per output, low/high shelving, bell, notch filters, phase, band pass
- 2 band dynamic EQ input and output
- Audio input and compressor/limiter
- loudspeaker signal limiting
- cross over filter types 6,12,18,24,48 dB per octave But, Bes, LR
- Delay - up to 2 seconds, (feet, inch, mm, meters, millisecond).
- 4 audio inputs, 6 audio outputs.
- AES/EBU digital input selectable by a switch on the rear panel
- Ethernet network
- DSP defeat switch so that the amplifier easily reverts back to a 4 input analogue amplifier.
- Front panel level trim using analogue potentiometer, front panel LED signal potentiometers.

Suitable Applications

Medium to larger full range and dedicated bass loudspeakers, bi amplified stage monitor systems, components within large format touring or installation loudspeakers low mid, high mid and HF, 4 ohm drive.

Medium to large full range loudspeakers 10"-15" drivers + 1" 1.5" HF

Low mid, high and HF in larger multi way systems installed or touring.

High power stage monitors 2x12" or 15" +1.5"

Medium bass 2x12" 15" or 1x18"

Use in conjunction with high power bass amplifiers signal driven from auxillary outputs on rear of DSP amplifier.

Full Fat Audio FFA-4004 G2 DSP

FFA four channel amplifiers with Digital Signal Processing (DSP) - 4 x 600W 8 Ohm, 4 x 1000W 4 Ohm



FFA Generation 2 DSP 4 channel amplifiers feature powerful digital signal processing (DSP). The DSP controlled amplifier provides a cost effective solution for sound system design and can be used for installation or temporary sound systems or any high quality amplified audio requirement. The system is controlled by software called FATWARE. The software is intuitive to use and offer the user a toolbox of audio functions to allow many different systems to be designed.

The FFA-4004 G2 DSP amplifier has 4 analogue audio input's which can be switched to allow connection of AES/EBU signals. Unusually there are 6 audio output channels, 4 assigned to the four channels within the amplifier and 2 aux outputs connected to a pair of male XLR connectors on the rear of the amplifier. These extra processed outputs can be used to drive any other amplifier channels in the system design.

Complex systems can be designed and signals can be routed as required with a signal matrix.

The DSP has powerful dynamics processors which have fully specified compressor/limiters on each audio input. These could be used for system protection against overdrive and also for environmental noise considerations. Each input and output has 2 bands of dynamic EQ in addition to parametric eq on each input and output.

The DSP is accessed via an Ethercon connector on the rear panel of the amplifier and connected using a CAT5 Ethernet cable direct to a personal computer or via an Ethernet Hub or router. The DSP is password protected and allows the designer to keep interference from unauthorised persons whom may change parameters and either damage the loudspeaker system or exceed set enviromental noise levels.

Features at a glance

- 4 x 1000 Watts @ 4 Ohms
- compressor limiter on each input
- 6 band parametric EQ per input, 8 band parametric per output, low/high shelving, bell, notch filters, phase, band pass
- 2 band dynamic EQ input and output
- Audio input and compressor/limiter
- loudspeaker signal limiting
- cross over filter types 6,12,18,24,48 dB per octave But, Bes, LR
- Delay - up to 2 seconds, (feet, inch, mm, meters, millisecond).
- 4 audio inputs, 6 audio outputs.
- AES/EBU digital input selectable by a switch on the rear panel

- Ethernet network
- DSP defeat switch so that the amplifier easily reverts back to a 4 input analogue amplifier.
- Front panel level trim using analogue potentiometer, front panel LED signal potentiometers.

Suitable Applications

Used to drive small - medium full range and dedicated bass loudspeakers, for touring or installation, ideal for components within touring loudspeakers such as mid range and HF, 4 Ohm drive.

Small full range loudspeaker for example 5"-10" + 1" driver compliment, smaller bass units 8" -10" drivers

High power mid range and HF drivers in multi way installed sound or touring sound systems Smaller stage monitors bi amp or full range.

Use in conjunction with high power bass amplifiers signal driven from auxillary outputs on rear of DSP amplifier.

Full Fat Audio FFA-6004

FFA four channel amplifiers - 4 x 1500 Watts @ 4 Ohms



Full power delivery all channels driven simultaneously loaded 4 ohms. Very useful and versatile multimode amplifiers, suited for large scale touring point source or line array systems. Equally suited in less demanding bass applications. Very installation friendly and ideal for bi amp stage monitoring systems or multi point theatre installations. Proprietary high efficiency FFA Class D output stage coupled with high current switch mode supply enables high power delivery even in the harshest environmental conditions.

Features at a glance

- 4 x 1500 Watts @ 4 Ohms
- Power efficient and cool running
- Rugged Tour class Aluminium construction
- Light weight - 9 kg
- FFA Class D technology
- High current switch mode power supply
- Side chain TCA clip limiter
- Hand built and designed in England

- Bi amp Neutrik® speakON outputs
- Signal Link through
- Neutrik® powerCON power input
- PSU soft start
- 5 year factory warranty

Suitable Applications

Bi amplified stage monitor systems, components within large format touring or installation loudspeakers low mid, high mid and HF, 4 ohm drive.

Medium to large full range loudspeakers 10"-15" drivers + 1" 1.5" HF

Low mid, high and HF in larger multi way systems installed or touring.

High power stage monitors 2x12" or 15" +1.5" Medium bass 2x12" 15" or 1x18"

Full Fat Audio FFA-4004

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- Bi amp Neutrik® speakON outputs
- Signal Link through
- Neutrik® powerCON power input
- PSU soft start
- 5 year factory warranty

Suitable Applications

Small full range loudspeaker for example 5"-10" + 1" driver compliment, smaller bass units 8" -10" drivers.

High power mid range and HF drivers in multi way installed sound or touring sound systems. Smaller stage monitors bi amp or full range