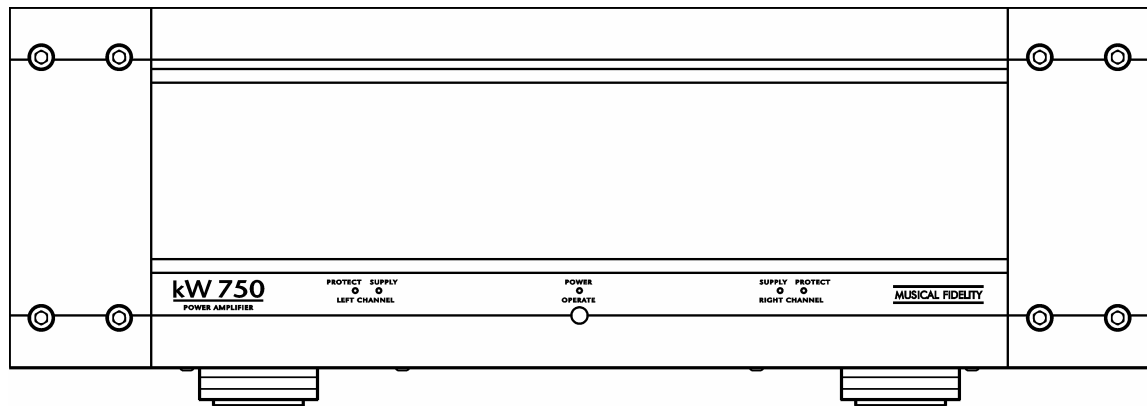


# kW 750 Power

## DUAL MONO POWER AMPLIFIER



### ***INSTRUCTIONS FOR USE***

*Thank you for purchasing the Musical Fidelity kW 750 amplifier.*

*Used properly and carefully, it should give many years of outstanding musical reproduction.*

*Aesthetically, the kW 750 Power amplifier is a perfect match for the kW Hybrid Line Pre-amplifier and kW Phono Pre-amplifier.*

*Together they form one of the finest hi-fi systems available.*

*Dust regularly with a soft duster or soft brush, but be careful when using cleaning or polishing agents - they may harm the surface finish.*

*If you have any questions about your audio system, please consult your dealer who is there to help and advise.*

**MUSICAL FIDELITY**

# SAFETY INFORMATION

## **IMPORTANT!** (*U.K. only*)


This unit is supplied in the U.K. with a mains lead fitted with a moulded 13 amp plug. If, for any reason, you need to cut off the plug, please remove the fuse holder and dispose of the plug safely, out of reach of children. **It must not be plugged into a mains outlet.**

The wires in the mains lead supplied with this appliance are coloured in accordance with the following code:

Green and yellow.....Earth  
Blue.....Neutral  
Brown.....Live

### **WARNING - This appliance must be earthed**

As the colours of the wires of the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or coloured green or green-and-yellow, or by the earth symbol: 

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

If connecting to a BS1363 plug, a 13 amp fuse must be used.

### **WARNING:**

**The kW 750 is a powerful amplifier and must necessarily supply high voltages through the loudspeaker terminals. Therefore, to avoid any possibility of an electric shock DO NOT TOUCH THE SPEAKER TERMINALS when the unit is being used. To comply with BSEN60065 safety regulations, the 4mm “banana” plug holes have been fitted with plastic blanking pieces. Removal of these will invalidate any electrical safety approval of this product.**

### **WARNING:**

**Any modifications to this product not expressly approved by Musical Fidelity who is the party responsible for standards compliance could void the user’s authority to operate this equipment.**

# GENERAL ADVICE

## INSTALLATION PRECAUTIONS and USER INFORMATION

Your new kW 750 amplifier is designed and built to provide trouble-free performance, but as with all electronic devices it is necessary to observe a few precautions:

Heed all warnings shown on the back of the product.

Only connect the kW 750 to a mains outlet having the same voltage as marked at the back of the unit.

Always ensure that when disconnecting and reconnecting your audio equipment the mains supply is switched off.

Position the mains lead and signal interconnects where they are not likely to be walked on or trapped by items placed on them.

Do not use near water, or place water-filled containers on the amplifier, for example, a flower vase or potted plants. **If water does spill inside, immediately pull out the mains plug from the wall socket and inform your dealer, who should then check the unit before further use. Entry of liquid into the amplifier is dangerous, and may cause electric shock or fire hazard.**

Do not place the unit near direct heat sources such as radiators, direct sunlight or other equipment.

Do not remove any covers or try to gain access to the inside. There are no internal adjustments or fuses you can replace yourself. Refer all service work including replacement of externally accessible fuses to an authorised Musical Fidelity agent.

**Note: Unauthorised opening of the equipment will invalidate any warranty claim.**

Dust regularly with a soft cloth or soft brush but be careful when using cleaning or polishing agents - they may harm the surface finish.

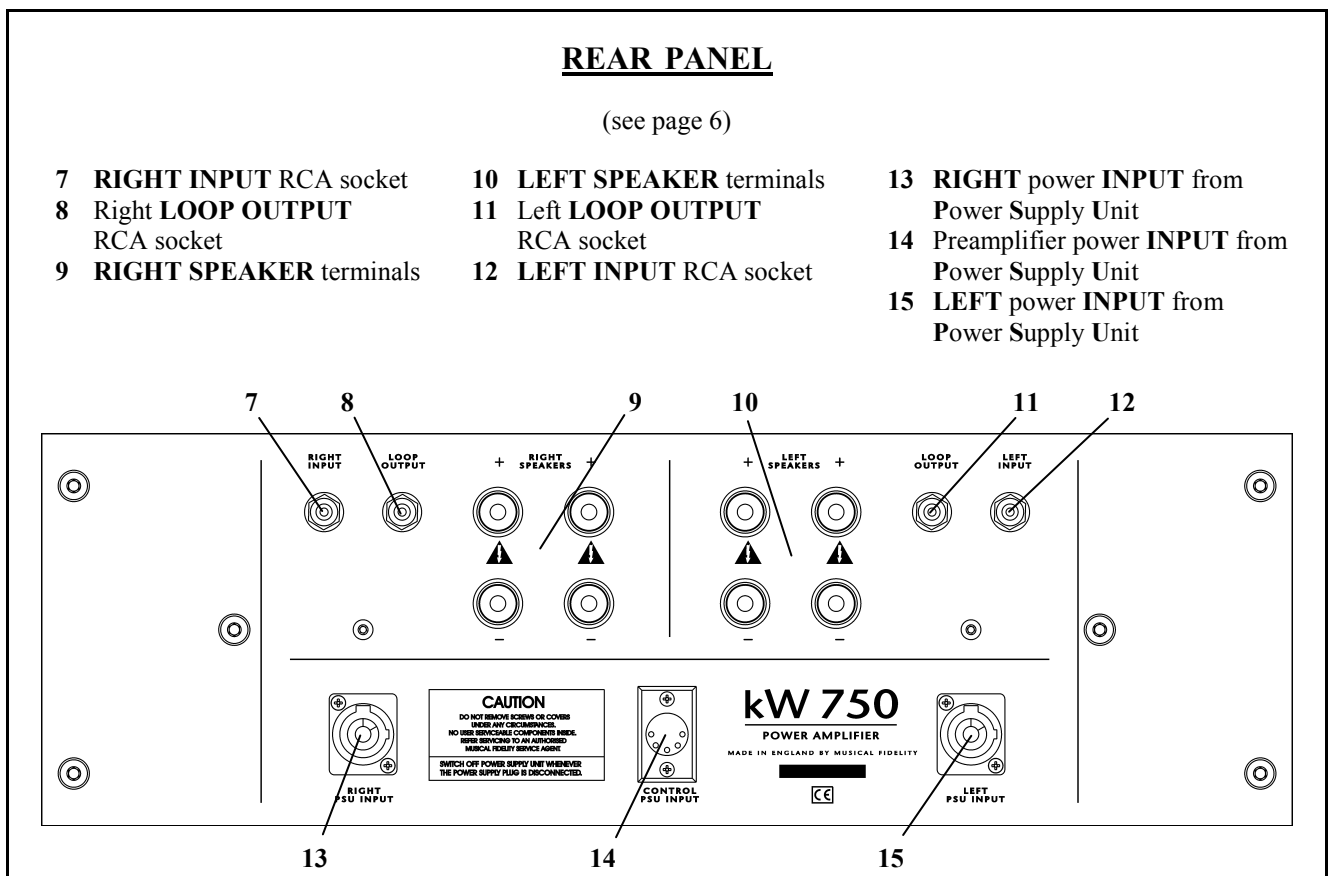
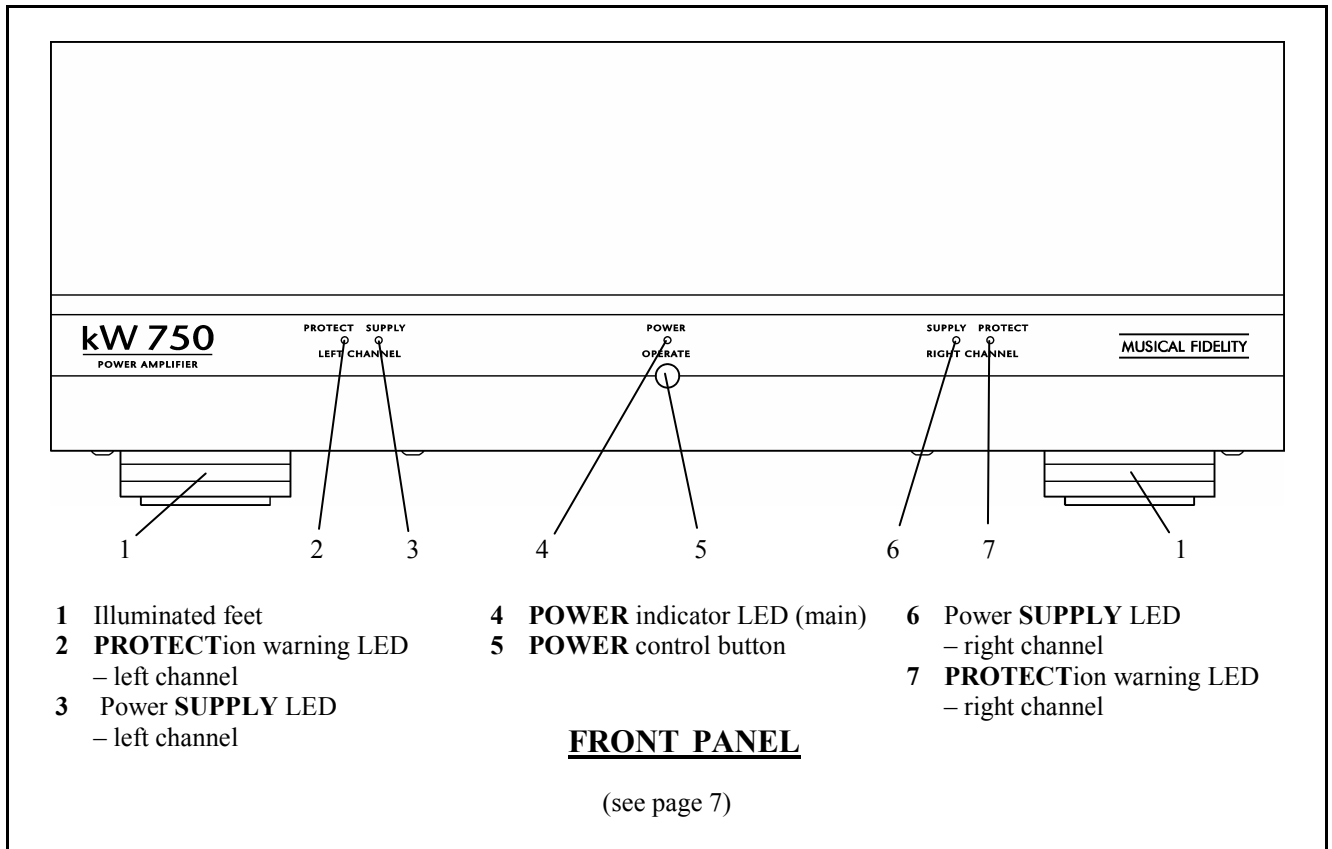
The electronics in modern hi-fi equipment is complex and may, therefore, be adversely affected or damaged by lightning. For protection of your audio system during electrical storms, remove the mains plugs and disconnect any aerial lead.

If after-sales service is required, to help your dealer identify the kW 750 amplifier please quote the serial number located on the rear panel of the unit.

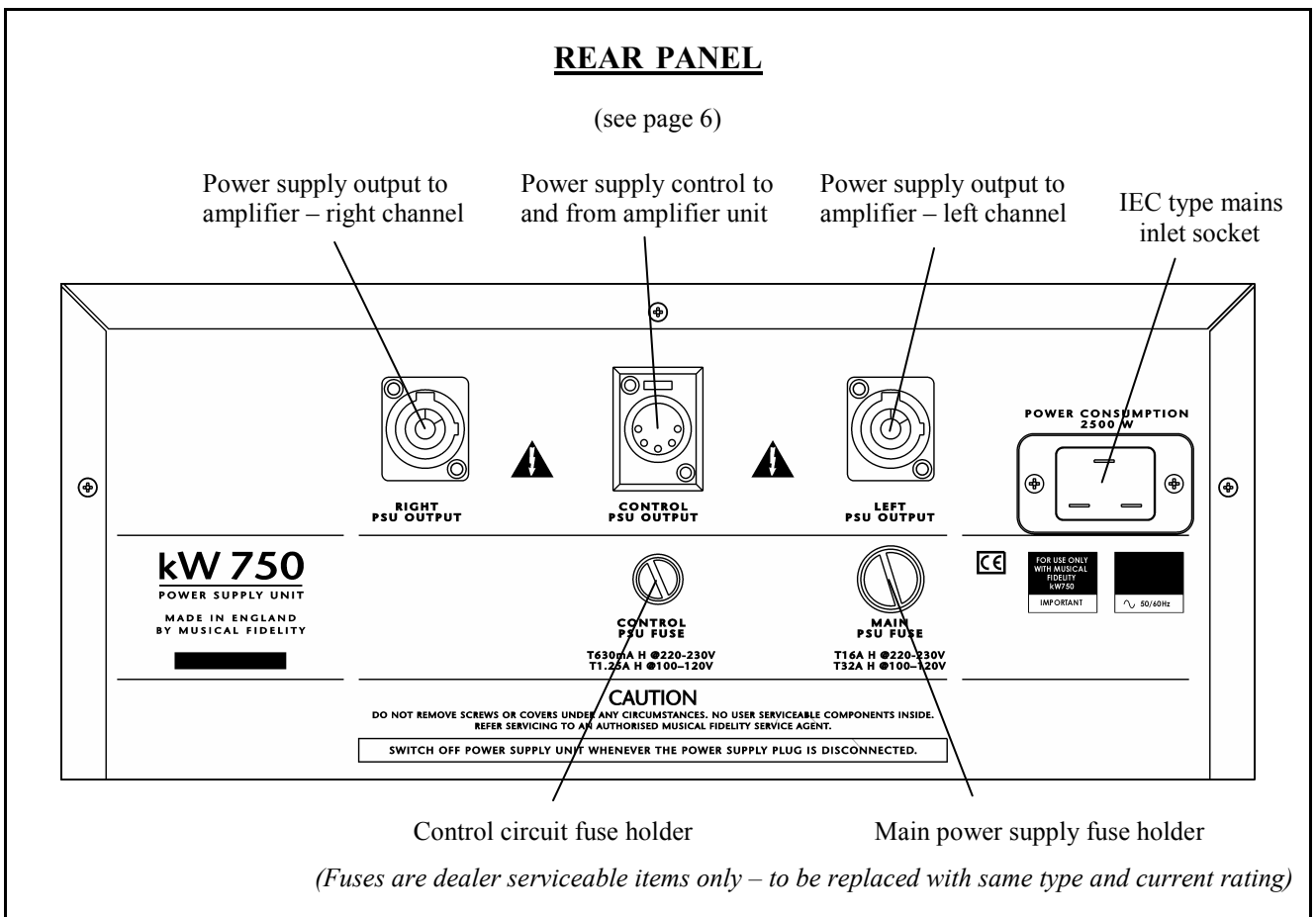
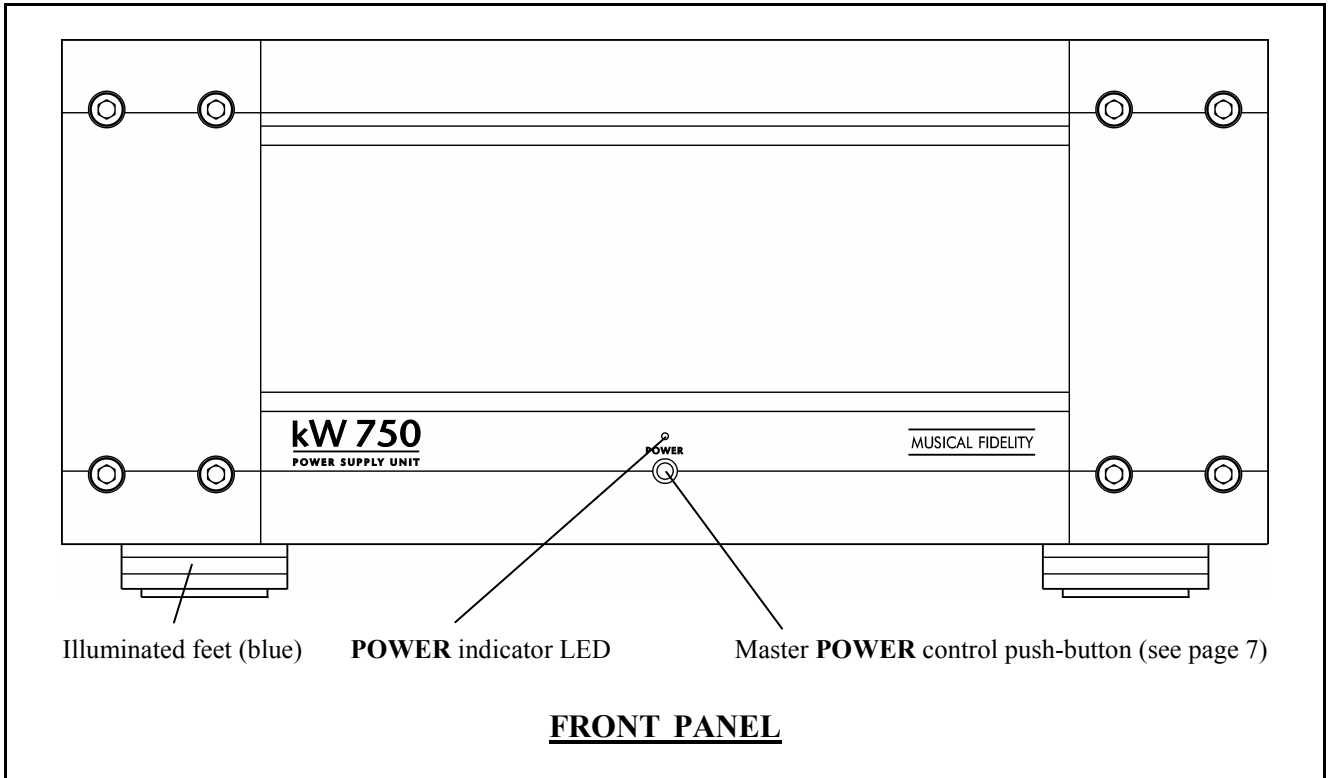
## RADIO FREQUENCY INTERFERENCE (R.F.I)

This product has been tested to ensure that its operation is not adversely affected by normal background levels of R.F.I., and that it does not itself generate excessive amounts of interference. However, if a problem persists, please contact your Musical Fidelity agent.

# CONNECTIONS and FACILITIES – Main Unit



# CONNECTIONS and FACILITIES – Power Supply



# CONNECTIONS

All input, output and power connections should be made with the mains power switched OFF.

## INPUT CONNECTIONS

The kW 750 amplifier can be used with any preamplifier or any line level source which has a volume control. We highly recommend the matching kW Hybrid Line preamplifier available from Musical Fidelity.

Using good quality co-axial audio leads, connect the left and right outputs from your pre-amp or other line level source to the RCA inputs on the back panel marked as **LEFT** and **RIGHT INPUT**. The corresponding **LOOP OUTPUT** sockets are directly connected inside the unit to duplicate the line inputs. This is to enable optional onward connection to another amplifier, for example when used for “bi-amplification”.

## LOUDSPEAKER CONNECTIONS

Connect your loudspeakers to the terminals on the back panel marked **LEFT-** and **RIGHT SPEAKERS**. Two sets are provided for left and right, but the combined load impedance for each channel must not be less than 4 Ohms.

One wire from each speaker lead pair goes to the red (+) terminal and the other to black (-). The wiring must be “in phase”, namely, the red and black terminals must be connected to the left and right speakers the same way round.

### Warning :

**The negative (black) terminal is part of a “bridged” circuit, and has live speaker output. It must not therefore be connected to any chassis or earth terminal.**

## POWER CONNECTIONS

In addition to the IEC type mains lead, three low voltage accessory interconnection leads are provided. Two of these are for independent supply of power to each of the left and right power amplifiers, and the third is for the pre-amplifier.

Connect the single, thinner, lead between the socket on the amplifier unit marked **PREAMP PSU INPUT** and the socket on the power supply unit marked **CONTROL PSU OUTPUT**.

Connect the remaining two (thicker) leads between the sockets on the amplifier unit marked **LEFT-** and **RIGHT PSU INPUT** to corresponding sockets on the power supply unit marked **LEFT-** and **RIGHT PSU OUTPUT**.

## BEFORE SWITCHING ON . . . . .

Plug the accessory IEC mains lead into the rear panel socket, then the other end into a convenient wall outlet.

Turn the volume control on your pre-amplifier to minimum, and switch on its power.

# OPERATION

## OPERATION

Press the master **POWER** push-switch on the front panel of the power supply unit. The blue **POWER** LED above the switch will light to confirm that power is applied to this unit only.

If the power supply and amplifier have been inter-connected correctly, the central blue **POWER** LED on the front panel of the amplifier will also illuminate to confirm that power is applied to the amplifier unit.

Power to *both* units can now be controlled by pressing a second **POWER** touch-button on the kW 750 amplifier front panel. When pressed, the two outer blue **SUPPLY** LEDs on the amplifier light, and the power supply feet will glow blue. However, for a few seconds no sound can be heard from your speakers, and the amplifier feet will light red to indicate initial mute action. A few seconds later the feet colour will change to yellow showing that your kW 750 is ready for use. After about 35 minutes of operation, the amplifier feet colour will further change to blue. Note that the feet under the power supply unit do not change colour.

Select the required audio input source on your pre-amplifier, and adjust the volume control for the preferred sound level.

Press the master **POWER** switch on the power supply unit a second time when required to switch off and isolate the kW 750 system completely from the mains.

## AUTOMATIC FAULT DETECTION

There are sensors in each left and right channel to detect adverse operating conditions, such as excessively high volume control setting, or incorrect loudspeaker load. Under these conditions, the affected channel will stop working and either left- or right-hand red **PROTECT** LED on the amplifier front panel will light. The LED will remain lit until the cause of the overload is removed.

## PROBLEMS?

Basic problem-solving with an amplifier is similar to troubleshooting other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following examples:

<b>Problem</b>	<b>Probable Cause</b>	<b>Remedy</b>
No power when <b>POWER</b> button is pressed	Mains power plug is not fully inserted into rear socket	Plug in securely
No sound	Tape monitor function has been selected on the pre-amplifier	Switch off tape monitor
	Wrong connections between input source and the kW 750	Check audio input lead connections
	Speakers not connected, or incorrectly wired	Check speaker cables
Sound is not precise, lacking in bass and stereo image	Speakers are connected out of phase, i.e., connections to one speaker (+ and -) are reversed	Ensure speakers are connected correctly
Hum	Audio connector plug not fully pushed in	Insert plug securely
	Connector cable is faulty	Check that the cable outer shield (screen) connection has not become damaged or detached inside the plug

If none of these actions effect a cure, please contact your dealer, or an authorised Musical Fidelity service agent. Remember, never open the case of the kW 750 amplifier yourself, as this will invalidate the guarantee.



# kW750

## SPECIFICATIONS

### DUAL MONO POWER AMPLIFIER

Output : Power :	750 Watts per channel into 8 Ohms (29dBW), 1100 Watts per channel into 4 Ohms
Voltage, RMS :	77.5 Volts 20Hz to 20kHz
Voltage, peak-to-peak :	219 Volts
Current, peak-to-peak :	250 Amps
Damping factor :	204
Output devices per channel :	20
Loop out impedance :	50 Ohms
Line inputs :	
Total harmonic distortion + noise :	< 0.004% 20Hz to 20kHz
Signal / noise ratio :	> 124dB 'A'-weighted
Input sensitivity for 750 Watts into 8 Ohms :	2.4 Volts
Input impedance :	100k Ohms
Channel separation :	> 93dB typical
Frequency response :	20Hz to 20kHz, +0, -0.2dB
Input :	1 pair line level RCA connectors
Outputs :	2 amplifier channels via 2 pairs per channel binding posts, 1 pair RCA loop output sockets
Power requirement :	100 / 115 / 230Volts AC 50 / 60Hz (factory pre-set), 2500 Watts at maximum audio power into 8 Ohms, 290 Watts idle
Dimensions :	Amplifier : 483 mm, 19 inches wide 167 mm, 21.8 inches high including feet 553 mm, 15.75 inches deep including rear terminals
	Power supply : 364 mm, 14.4 inches wide 167 mm, 6.6 inches high including feet 278 mm, 11 inches deep including rear sockets
Weight :	Amplifier : 34.1 kg, 75.1 lbs unit only, unboxed, 45.2 kg, 100 lbs in shipping carton
	Power supply : 18.4 kg, 40.6 lbs unit only, unboxed, 21.4 kg, 47.2 lbs in shipping carton
Standard accessories :	IEC mains lead - (16-Amp type) : one, 2.4 metres (94.5 inches) Low voltage interconnection leads : two, 1.2 metres (47.3 inches) Control interconnection lead : one, 1.2 metres (47.3 inches)



*Musical Fidelity reserves the right to make improvements which may result in specification or feature changes without notice.*