

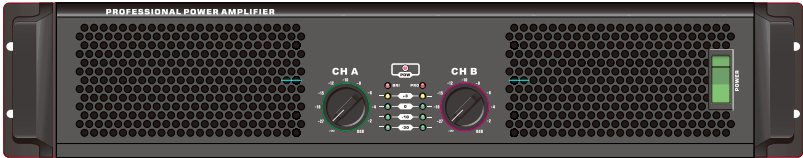
TECHNICAL SPECIFICATIONS

MODEL		XL600	XL720	XL1000	XL1250	XL1600	XL2200	XL2500
SPECIFICATION								
Rated output power 1KHz,THD < 0.5%	8ohm	2x180W	2x220W	2x300W	2x380W	2x520W	2x710W	2x800W
	4ohm	2x300W	2x360W	2x500W	2x625W	2x800W	2x1100W	2x1250W
	Bridge 8ohm	600W	720W	1000W	1250W	1600W	2200W	2500W
Input sensitivity	0.7V,1.0V,1.4V(0dB,+2.2dB,+5.4dB)可选							
Input impedance	10Kohm (balanced)							
Frequency response	-0.5dB(20~20000Hz)							
Voltage gain		32dB	33.5dB	35dB	36dB	37.5dB	38.5dB	39dB
Slew rate	22V/us							
Damping factor	>400:1 @ 1KHz, 8ohms							
Cross talk	-82dB(1KHz)							
S/N ratio	98dB							
Harmonic distortion THD	<0.1% (20~20000Hz)							
Intermodulation distortion	<0.1% (SMPTE method, 60Hz & 7KHz,4:1 ratio)							

GENERAL SPECIFICATIONS		XL600	XL720	XL1000	XL1250	XL1600	XL2200	XL2500
Protections		Power on or off and DC output protections Short circuit protection,Over-temperature protection,Over-current protection						
Controls		ON/OFF switch, input level control for each channel, optional working mode, optional limit control ,optional GND						
Indicators		PROTECTION:1 LED BRIDGE: 1 LED LEVEL: 2 x 4 LEDs meters						
Connectors	IN	1 XLR-F + 1 JACK in parallel for each channel						
	OUT	1 SPEAKON for each channel, 1 SPEAKON bridge out						
Power supply		See label on the unit						
Dimensions (WXHXD)	mm	482x385x88.8	482x385x88.8	482x385x88.8	482x420x88.8	482x465x88.8	482x465x88.8	482x465x88.8
Weight	Kg	11.5	12.5	14.2	15.8	18.5	21	22.5

XL Series Power Amplifiers

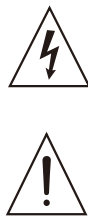
XL2500/XL/2200/XL1600/XL1250/XL1000/XL720/XL600



User's Manual

## INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK

### OR INJURY TO PERSONS.



The lighting flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltages within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## IMPORTANT SAFETY INSTRUCTIONS

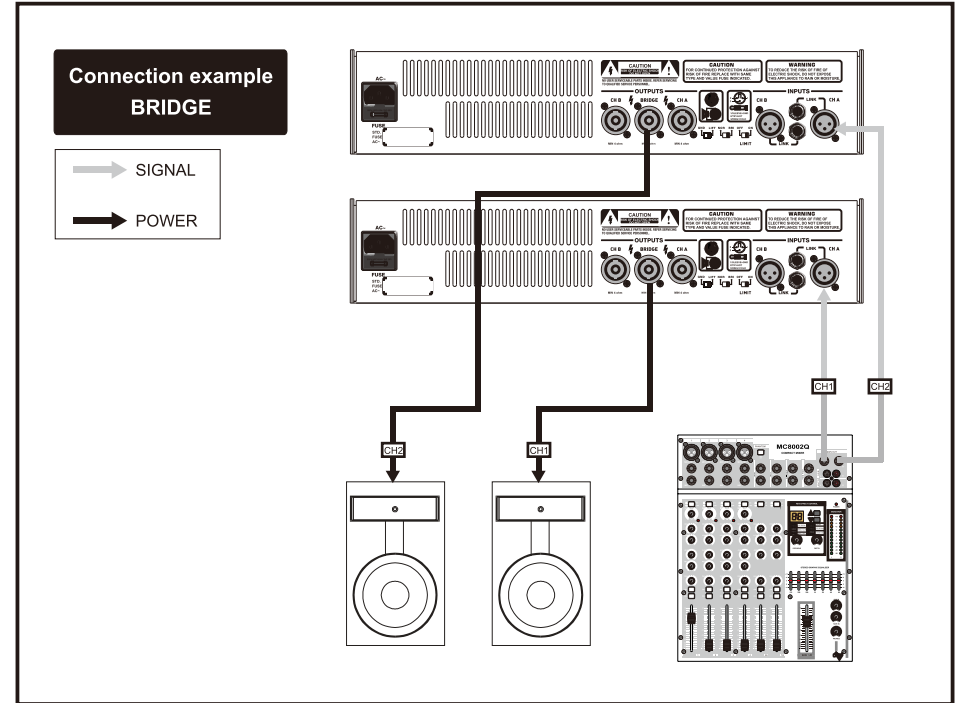
### SAVE THESE INSTRUCTIONS

**WARNING** - When using electric products, basic precautions should always be followed, including the following.

- Read all these instructions before using the product.
- Do not use this product near water, for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
- This product should be used only with a cart or stand the manufacturer recommends that.
- This product, either alone or in combination with an mixer and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
- The products should be located so that its location or position does not interfere with its proper ventilation.
- The product should be located away from heat sources such as radiators, heat resistors or other products that produce heat.
- The product should be connected to a power supply only of the type described in the operating instructions or as marked on the rear panel of the product.
- The power supply cord of the products should be unplugged from the outlet when left unused for a long period of time.
- Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- The product should be serviced by qualified service personnel when:
  1. The power supply cord or the plug has been damaged; or
  2. Objects have fallen, or liquid has been spilled into the product; or
  3. The product has been exposed to rain; or
  4. The product does not appear to operate normally or exhibits a marked change in performance; or
  5. The product has been dropped, or the enclosure damaged
- Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to quality service personnel.

### CAUTION

- Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly.
- Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

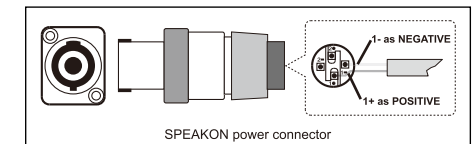
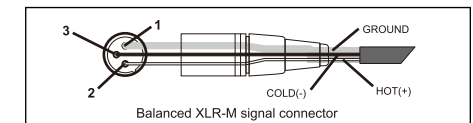
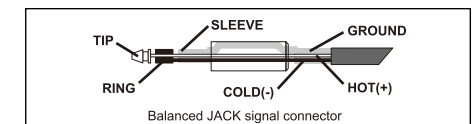


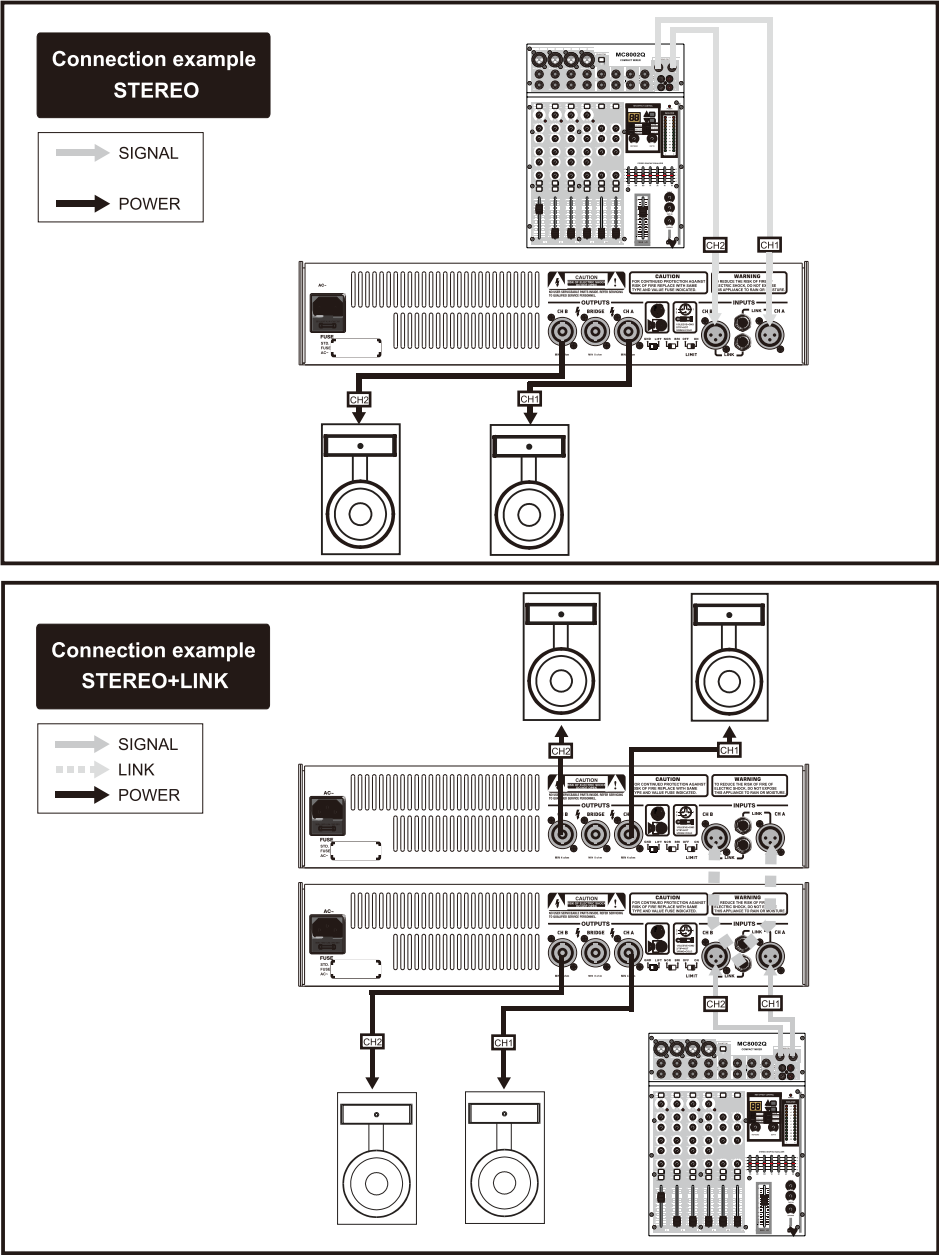
## CONNECTION CABLES

The following diagrams show the wiring of the connectors that can be used with **XL** series amplifiers. To connect the mixer outputs to the amplifiers inputs, make certain to always use balanced signal cables: the use of unbalanced cables could in fact probably cause annoying hum and noise.

To connect the amplifier to the loudspeaker enclosures always use power cables (speaker cables made up of two wires, normally with a large cross-section).

Take care of your connector cables, always gripping them by the plugs, avoid pulling them directly and winding them without knots or bends: they'll last longer and be more reliable, which is to your advantage. Check periodically that your cables are in good condition, correctly wired and with perfectly efficient contacts: in fact many problems and drawbacks (false contacts, ground hum, crackles, etc.) are caused by the use of unsuitable or damaged cables.





# CONTENTS

Introduction . . . . . 2

Control panel . . . . . 4

Rear panel . . . . . 5

Connection examples . . . . . 6

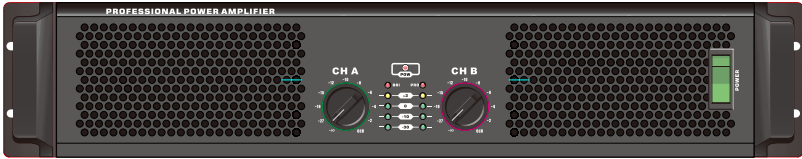
Connection cables . . . . . 7

Technical specifications . . . . . 8

## Congratulations for having chosen XL SERIES amplifiers!

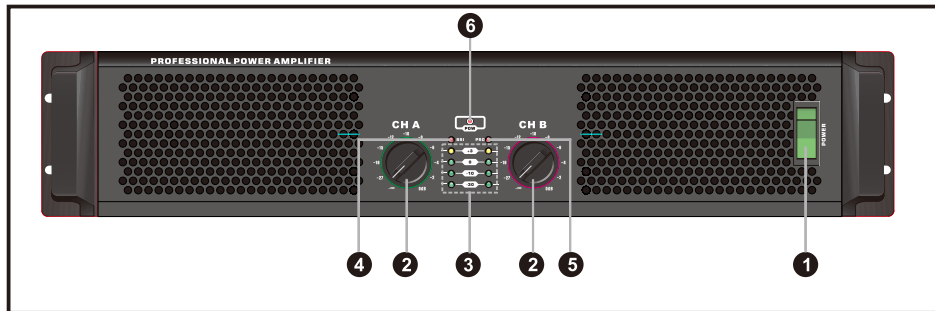
The **XL SERIES** power amplifiers have been designed in order to provide great efficiency, dynamics and reliability at a very affordable price, in a variety of fixed and mobile audio applications.

The accurately designed circuitry and selected components offer excellent sound quality and high fidelity audio reproduction. The compact design improves the price/performance ratio, while the rugged metal chassis guarantees maximum sturdiness..



The **XL SERIES** amplifiers are equipped with a highly visible LED display system, which provides precise information on signal status in any lighting condition.

The connection system includes **XLR** and **TRS JACKS** for audio input and **SPEAKON** for outputs. Standard 19" rack mount together with sturdy metal chassis make installation easy while providing maximum protection.



## 1 POWER

Power switch used for turning on or off the power of the unit

## 2 INPUT ATTENUATORS

Input gain attenuator potentiometers

Attenuate the level of the external signal sent to the respective channels of the amplifier.

Continuously variable values, expressed in dB, are between:

< rotate anti-clockwise to the top>fully closed( the signal is completely attenuated and therefore not sent to the channel of the amplifier) and

< rotate clockwise to the end>fully open, i.e. nominal level (the signal is not attenuated in any way, so is fed to the amplifier channel at the same level at which it arrives on input)

## 3 SIGNAL

Signal LED indicate output signal of the respective channel,

The signal samples from the output of the relative channel

It means that the amplifier is operating and having power signal send out.

## 4 BRIDGE

LED for indicating the work mode of the amplifier

This LED will light when the bridge switch at rear panel on the bridge position

## 5 PRO

LED indicating when the amplifier is at the protect status

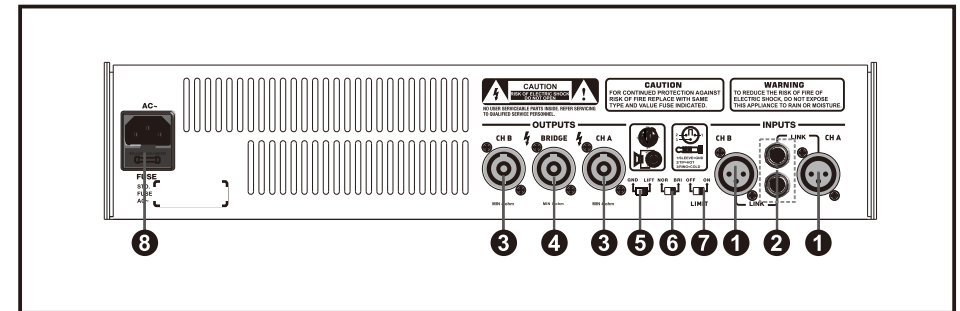
The amplifier may be switched on just now; or

The amplifier may be in over hot; or

The output of the amplifier have enough DC parts it will damage the speakers

## 6 POWER

LED indicating when the amplifier is switched on



## 1 INPUT

Balanced XLR-F connectors (0dB)

The inputs of the amplifier's two channels. Can receive balanced or unbalanced high impedance line signals from equipment with high level outputs.

**Note: whenever possible, use balanced cables. In any case, avoid using a balanced cable for one channel and an unbalanced one for the other, as this would cause a considerable difference in channel levels.**

## 2 LINK

Balanced JACK connectors (0dB)

These connectors are connected in parallel with the respective XLR-F connectors. This enables a second unit (e.g. another amplifier) to be daisy-chained to the first. It's thus possible to power several amplifiers using the same signal, forming more powerful sound reinforcement systems.

## 3 OUTPUT

SPEAKON connectors for 2 output channels (minimum impedance 4ohm).When it working in Dual-channel mode, these 2 SPEAKON connect to 2 speakers or 2 groups of speakers.

The SPEAKON connectors are wired in this way:

PIN 1+ connect to "+" positive pole of a speaker PIN 1- connect to "-" negative pole of the speaker.

## 4 BRIDGE

SPEAKON connectors for Bridge output (minimum impedance 8ohm).When it working on Bridge mode, this SPEAKON connect to speaker or speaker groups.

The SPEAKON connectors are wired in this way:

PIN 1+ connect to "+" positive pole of a speaker PIN 1- connect to "-" negative pole of the speaker.

NOTE: to avoid possible damage to the loudspeaker enclosures, only connect enclosures or speaker systems compatible with the power load and impedance limits indicated for the amplifier (regarding this, consult the "Technical specifications" chapter for reference to your specific amplifier model). Use only loudspeaker enclosure cables, never signal cables, i.e. those normally used for microphones, instruments and audio equipment in general.

## 5 GND/LIFT

This slide switch is used for selecting connect mode between the circuit ground and the chassis.

## 6 BRIDGE/NORMAL

This slide switch is used for selecting working mode between the NORMAL and the BRIDGE.

## 7 LIMIT

This slide switch is used for selecting if the LIMIT circuit works.

## 8 AC~

Power socket with Fuse Holder