

- ◆ LA6004: 400W into 8ohms; 660W into 4ohms; 1300W into 8ohms(Bridged)
- ◆ LA14004: 800W into 8ohms; 1400W into 4ohms; 2800W into 8ohms(Bridged)
- ◆ LA18004: 1100W into 8ohms; 1800W into 4ohms; 3600W into 8ohms(Bridged)
- ◆ LA21004: 1300W Into 8ohms, 2100W Into 4ohms; 4200W into 8ohms(Bridged)
- ◆ Precision Power, Signal, CLIP, PROT to monitor performance
- ◆ Selectable Low-frequency filters(30Hz) remove distracting infra-sound frequencies.
- ◆ Independent limiters per channel offer reliable protection against overload and distortion.
- ◆ High-current copper transformer for ultra high transient response and absolute reliability.
- ◆ Ultra reliable Onsemi and SANKEN power transistors.
- ◆ Independent DC and thermal protection on each channel automatically protects amplifier and speaker without shutting down the show.
- ◆ “Front to rear” ventilation system avoid uncomfortable feelings when operate the amps from front panel.
- ◆ High strength of 2mm thickness amp chassis for 3U LA21004 series and 1.5mm thickness for LA18004, LA14004 and LA6004 with 6mm aluminum front panel
- ◆ High quality electronic elements and extraordinarily robust construction ensure long life span.
- ◆ Bass Enhancer in LA21004 for better bass response.
- ◆ Works perfectly even at low voltage, specifically “Make for India”.
- ◆ Designed by AERONS INDIA, India.



LA6004&LA14004&LA18004 rear panel



LA21004 rear panel

## THEY MAKE THE SOUND AMPLIFY FROM STRENGTH.

LA series is the most cost effective multi-channel transformer amplifier which is suitable for small to middle sized applications. Its excellent sound performance makes it be suitable for various functional requests. Equipped with pure copper heavy-duty toroidal transformer and assembled with high quality electronic elements, they can work stable at 4 ohm load easily with no sound distortion. Different circuit layouts drive them in the same stability and reliability. Multiple-protections and innovated heat radiation escort them can work for long term but low failure.

### Features

- ◆ Four-stage power models available, which can match with the most speakers very well, convenient for your to build up a sound system.
- ◆ Copper heavy-duty high-current toroidal transformer, for further reliability even at high and low voltage. Low physical “Buzzing” noise from seamless copper wires.
- ◆ Excellent heat radiation creates 90% high efficiency.
- ◆ High-capacity and low-impedance transistors and world famous brand electronic elements
- ◆ Multiple protection features: DC/Short Circuit/High Temp/Overload/Soft start up/CLIP/VHF
  - The DC protect is  $\pm 10V$ . This can protect your loudspeakers effectively.
  - Short circuit protection can mute the input signal and switch off the power amp modules. The power amp will recover voluntarily when short circuit elimination. You don't need to switch off the amp and then restart it. It can make sure of the reliability of the whole sound system.
  - There are thermal switches inside the transformer and the amp modules. Upon  $135^{\circ}C$  of the inside transformer and  $95^{\circ}C$  of the amplifier module, the thermal switch will be switched off to protect.
  - Input overload protection will protect speakers very well. Moreover, input overload is working with sound dynamic. Its maximum tolerable voltage is 22dBu. It can effectively avoid signal square wave to damage speakers.
  - It has soft start up protect. This can keep the amp from the break of high current inrush.
  - 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  $35V/\mu s$ . 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
- ◆ 10A/20A/25A/30A circuit breaker on rear panel, which can be repeatedly use through pressing it back.
- ◆ Ground ON/OFF switch on rear panel(LA6004/LA14004/LA18004) can help to reduce noise in sound system.
- ◆ Crossover circuit is built with 18dB/oct LINK with Riley filters(LA21004).  
Low pass 160Hz means frequency that over 160Hz will be cut  
High pass 160Hz means frequency that below 160Hz will pass.  
Low cut 30Hz means that frequency that below 30Hz will be cut. We cannot hear frequency below 30Hz, but it will bring high energy loss to amplifier as well as destruction to speakers.
- ◆ Bass Enhancer function(LA21004) will make the amplifier as punchy as enough.
- ◆ High dynamic range and low distortion, sound transparent and extensive.
- ◆ The unique module assembly method(LA18004/LA21004) forms a tunnel-type heat dissipation channel, which improves the heat dissipation efficiency and reduces the temperature rise of the power amplifier for long hours of operation.

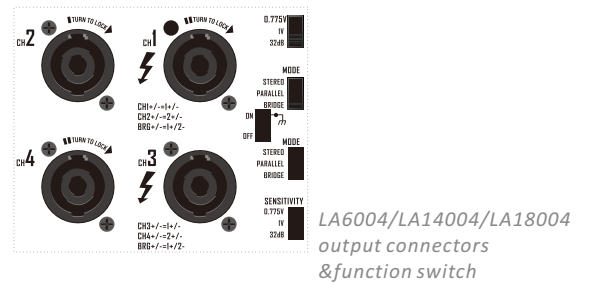
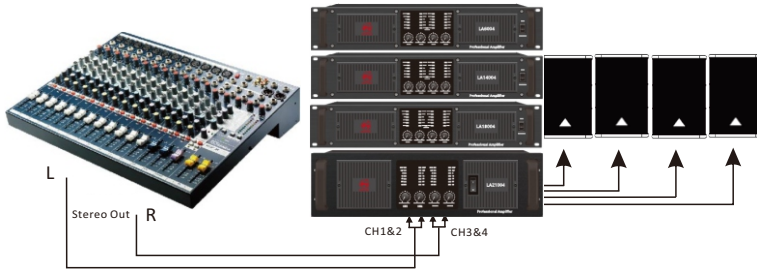
### Applications

- ◆ Small to middle sized KTV/ bar/ hall installations
- ◆ Economical sound reinforcement applications
- ◆ Venues with high sound quality and power density requirements
- ◆ Sub woofer amplification on continuous full-power operation

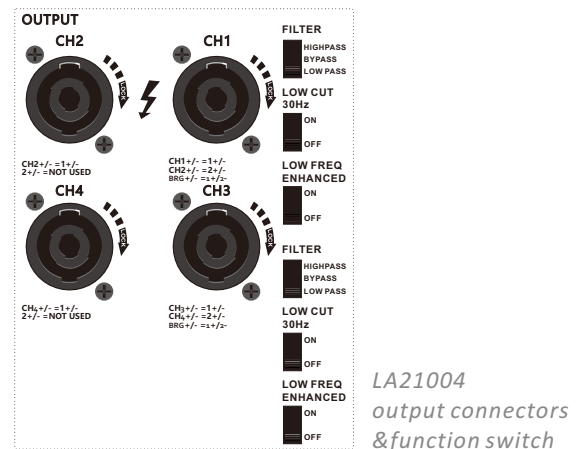
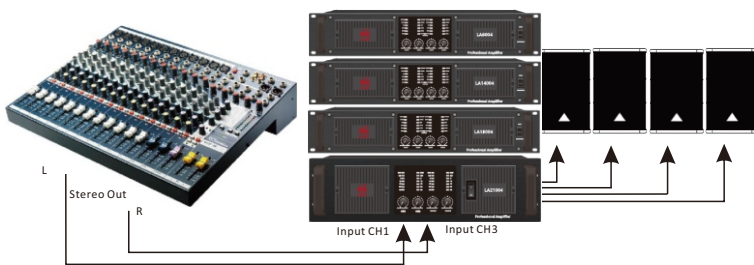
# LA SERIES



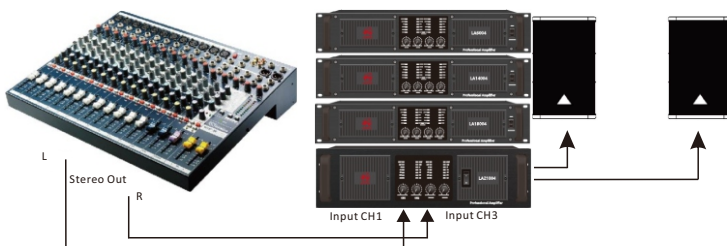
## ◆ Stereo Mode



## ◆ Parallel Mode



## ◆ Bridge Mode



## SPECIFICATIONS

### Rated Power(1 KHz, THD+N≤0.05%)

| LA6004    |         |
|-----------|---------|
| 8Ω stereo | 4x400W  |
| 4Ω stereo | 4x660W  |
| 8Ω bridge | 2x1300W |
| 4Ω bridge | 2x1600W |

| LA14004   |         |
|-----------|---------|
| 8Ω stereo | 4x800W  |
| 4Ω stereo | 4x1400W |
| 8Ω bridge | 2x2800W |
| 4Ω bridge | 2x3000W |

| LA18004   |         |
|-----------|---------|
| 8Ω stereo | 4x1100W |
| 4Ω stereo | 4x1800W |
| 2Ω stereo | 4x2100W |
| 8Ω bridge | 2x3600W |
| 4Ω bridge | 2x4200W |

| LA21004   |         |
|-----------|---------|
| 8Ω stereo | 4x1300W |
| 4Ω stereo | 4x2100W |
| 2Ω stereo | 4x2500W |
| 8Ω bridge | 2x4200W |
| 4Ω bridge | 2x5000W |

| Crossover |       |
|-----------|-------|
| LA21004   |       |
| High pass | 160Hz |
| Low pass  | 30Hz  |

| Filter Capability |               |
|-------------------|---------------|
| LA6004            | 6800μF/80Vx8  |
| LA14004           | 12000μF/80Vx8 |
| LA18004/LA21004   | 3300μF/200Vx8 |

| Damping Factor         |      |
|------------------------|------|
| LA6004/LA14004/LA18004 | ≥250 |
| LA21004                | ≥800 |

| Dimension(WXHXD)       |                   |
|------------------------|-------------------|
| LA6004/LA14004/LA18004 | 483mmx444mmx89mm  |
| LA21004                | 483mmx458mmx133mm |

### Gross Weight

|         |         |
|---------|---------|
| LA6004  | 26.45KG |
| LA14004 | 28.5KG  |
| LA18004 | 33.8KG  |
| LA21004 | 40KG    |

### LA series

#### 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, 1/4W into 8ohms)

|           |            |
|-----------|------------|
| LA series | 20Hz-20KHz |
|-----------|------------|

#### Input Sensitivity

|                        |                |
|------------------------|----------------|
| LA6004/LA14004/LA18004 | 0.775V/1V/32dB |
| LA21004                | 26dB/32dB/38dB |

#### S/N ratio

|                |        |
|----------------|--------|
| LA6004/LA14004 | ≥100dB |
| LA21004        | ≥95dB  |

#### Output Circuit

|                |            |
|----------------|------------|
| LA6004/LA14004 | Class H    |
| LA18004/21004  | Class AB+D |

#### Connectors(each channel)

|   |                         |
|---|-------------------------|
| Input connectors                                |                         |
| LA series                                       | 3 pin XLR               |
| Output connectors                               |                         |
| LA series                                       | SpeakON                 |
| Mode  | Stereo/Parallel/IBridge |
| Fan speed regulation                            | Auto-speed              |
| Channel separation<br>(8Ω load, 1KHz and below) | ≥70dB                   |
| Slew Rate                                       | 35V/uS                  |

#### Input Impedance

|            |     |
|------------|-----|
| Balanced   | 20K |
| Unbalanced | 10K |