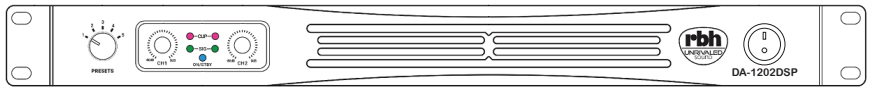
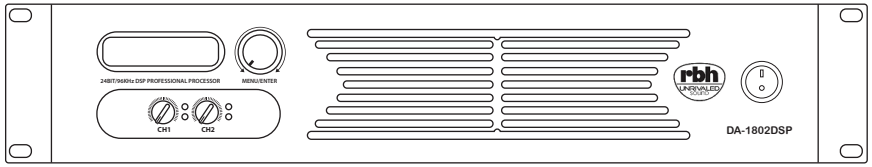
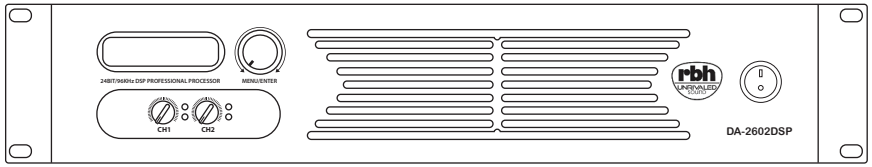
RBH SOUND
PROFESSIONAL POWER AMPLIFIER
DA SERIES



DA-1202DSP



DA-1802DSP



DA-2602DSP

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OWNER'S MANUAL

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Safety Information

CAUTION: To reduce the risk of electric shock, do not remove any cover (or the rear section). No user servicable parts inside. Refer servicing to qualified service personnel only.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. Electrical equipment should NEVER be kept or stored in damp environments.

This symbol, wherever it appears, is intended to alert the user to the presence of un-insulated dangerous voltage within the appliance and it's enclosure may be of a sufficient magnitude to a risk of electric shock.

This symbol, wherever appears, is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying this appliance.

This symbol means: Indoor use only.

This symbol means: Read instructions.

Safety instructions

1. **Read Instructions** →All safety and operating instructions should be read before this products is connected and used. Please keep for future reference.
2. **Heed Warnings** →All warnings in these operating instructions should be followed.
3. **Heat, Water and Moisture**→Do not place amplifier too close to any high heat sources such as radiators. Keep away from direct contact with liquids.
4. **Ventilation** →Amplifier should be situated so that its location or position does not interfere with proper ventilation.
5. **Power Source & Power Cord**→ Amplifier must be connected to a power supply described in these operating instructions or marked on the unit. Be sure to connect to a properly grounded outlet. Power cord should be routed so that it will not be walked upon or pinched. Check the total maximum power of your AC wall outlet and make sure it is sufficient otherwise you could overload the circuit. A dedicated power circuit is preferred and recommended.
6. **Internal/External Voltage Selectors**→Internal or external voltage selector switches, if any, should only be reset and re-equipped with a proper plug and or fuse for alternative voltage by a qualified service technician. Do not attempt to alter this yourself.
7. **Cleaning**→Unplug the amplifier first and clean only with a dry microfiber cloth.
8. **Non-use Period**→The power cord should be unplugged from the outlet when left unused for long periods of time.
9. **Unpacking & Setup** →Please check your amplifier for any damage after unpacking (before connecting) and contact your dealer in case of any related complaints. Take care in choosing installation location and the correct AC Connection. If built into the rack, be aware that the depth and weight may require an additional set of rear rack brackets for support.

13. **Damage Requiring Service** →Servicing is required when the amplifier has been damaged in any way, such as power cord or plug damage, liquid has been spilled or objects have fallen in the amplifier. It has been exposed to rain or moisture, does not operate normally, or has been dropped. Refer all servicing to qualified service personnel or contact your dealer. Do not attempt to repair by yourself.

Installation Notes

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Mode Selection Instructions for RBH DA-1802 / 2602DSP Amplifiers

1. From main menu "Welcome" screen press and hold Menu/Enter knob for 5 seconds until "Password" appears on display.
2. Rotate knob clockwide until cursor is positioned under "OK". Press Menu/Enter knob 1 time. Display will return to "Welcome" menu screen with lock icon removed.
3. Press Menu/Enter knob quickly 2 times. "Mode" screen will appear on display.
4. Press Menu/Enter knob 1 time to enter Mode selection.
5. Rotate Menu/Enter knob to scroll through Mode options (#1- #6).
6. When desired Mode number is displayed press the Menu/Enter knob 1 time to select desired Mode. Mode will be stored and display returned to main menu "Welcome" screen with new mode displayed.

Mode #1 LFE (2 Channel Output Full Range)
LFE setting: Passes all of the signal provided by the source component within the subwoofer's stated bandwidth. The bass management in the AV processor or receiver should be used to set the subwoofer crossover frequency for best integration with the main speakers.

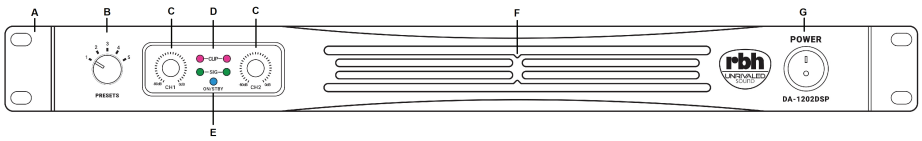
Mode #2 SUB (2 Channel Output 80 Hz Low Pass Filter)

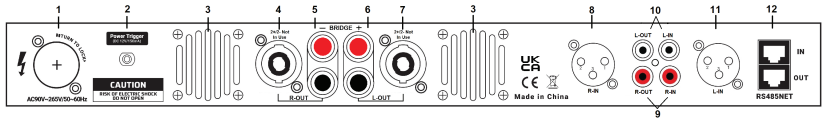
Mode #3 MAX SPL (Subwoofer EQ Optimized for Maximum SPL)
Max SPL setting: The amplifier/subwoofer performance is optimized with both EQ and low/high pass filters to provide the maximum sound pressure level possible. This typically limits extreme low frequency output. The bass management in the AV processor or receiver may still be used to set the subwoofer crossover frequency for best integration with the main speakers.

Mode #4 MAX EXT (Subwoofer EQ Optimized for Maximum Extension)
Max Extension setting: The amplifier/subwoofer performance is optimized with both EQ and low/high pass filters to provide the most bass extension possible given the amplifier power and low frequency capabilities of the subwoofer. The bass management in the AV processor or receiver may still be used to set the subwoofer crossover frequency for best integration with the main speakers.

Mode #5 Custom EQ (Customized EQ setting through Computer Software)

Mode #6 Available for custom EQ setting





DA-1202DSP

A. Removable Rack Mounts
B. DSP Programmable Presets
C. Channel Volume Adjustments
D. Clipping and Signal Indicators
E. Power On / Standby Indicators
F. Ventilation Intake
G. Power On / Off

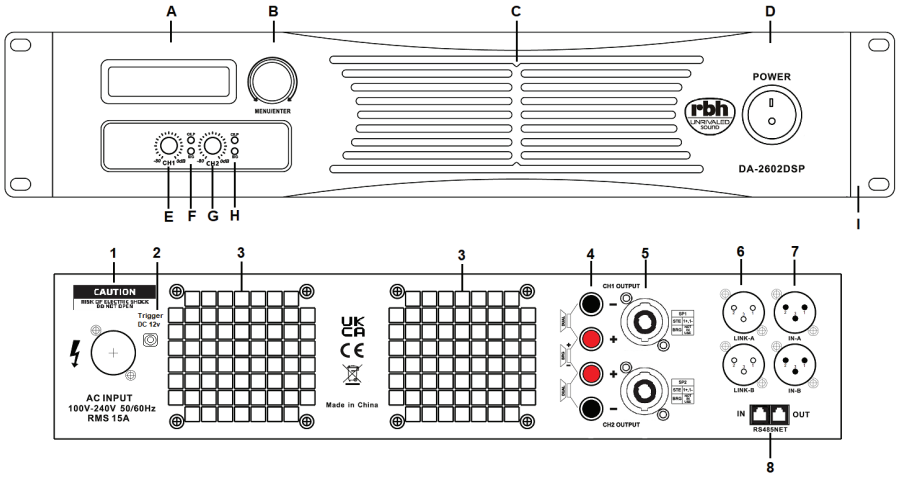
1. **Power supply connect**
2. **12v trigger On / Standby**
3. **Ventilation exhaust**
4. **CH-1 (Right) Output speakON**
5. **CH-1 (Right) Output Binding Posts**
6. **CH-2 (Left) Output Binding Posts**
7. **CH-2 (Left) Output speakON**
8. **CH-1 (Right) XLR Female Input**
9. **CH-1 (Right) RCA In / Output**
10. **CH-2 (Left) RCA In / Output**
11. **CH-2 (Left) XLR Female Input**
12. **RS485 Network In-Out**
    (In: Software updates. Out: To other amp)

RBH SOUND
PROFESSIONAL POWER AMPLIFIER
DA SERIES

MODEL DA-2602DSP

AMPLIFIER TYPE	High Efficiency Class D w/DSP
DSP Module	2-channel DSP 24bit / 96khz
8 Ohms 2-channel	2 x 1300W
4 Ohms 2-channel	2 x 2600W
8 Ohms Bridged 1-channel	1 x 2600W
Output Circuitry	Class D
Frequency Response	10Hz - 1kHz (+/- 0.5dB) with variable Low & High Pass Filters
THD% 1/8 RMS, 1kHz	≤0.05%
Damping Factor (RMS, 1kHz)	≥300
Input Impedance	Balanced: 20K Ohms, RCA 10K Ohms
Power Supply	AC100 – 240V ~ 50/60Hz
Input Sensitivity (DSP adjustable)	1.4V
Protection	DC protection, Undervoltage protection, Smart overheat management, Soft startup protection, Output overload protection, Input/Output Limiters (DSP adjustable)
Cooling	Smart variable speed fans. Front to back venting
Input connectors	XLR, (RCA with included adaptor)
Output connectors	Binding Post, SpeakOn
Rack Space	2U
Amp Dimensions (W x H x D)	19 x 3.875 x 11.5in (483 x 98.5 x 292mm)
Net Weight	15.4lbs (7.0Kg)
Warranty	1 Year manufacture defect

DSP pre-programmed to optimize RBH Subwoofer(s) performance.
Software available to download to customize DSP onsite
Features and Specifications are subject to change without notice.



DA-2602DSP

A. DSP Menu Screen
B. DSP Control
C. Ventilation Intake
D. Power On / Off
E. Channel 1 Volume
F. Channel 1 Clipping and Signal Indicators
G. Channel 2 Volume
H. Channel 2 Clipping and Signal Indicators
I. Removable Rack Mounts

1. Power Supply Connect
2. 12v Trigger On / Standby
3. Ventilation Exhaust
4. Channel 1 & 2 Binding Posts and Bridge Option
5. Channel 1 & 2 speakON Output
6. Channel 1 & 2 XLR Output
7. Channel 1 & 2 XLR Input
8. RS485 Network In-Out
   (In: Software Updates. Out: To other amp)

RBH SOUND
PROFESSIONAL POWER AMPLIFIER
DA SERIES

MODEL DA-1202DSP

AMPLIFIER TYPE	High Efficiency Class D w/DSP
DSP Module	2-channel DSP 24bit / 96khz
8 Ohms 2-channel	2 x 600W
4 Ohms 2-channel	2 x 1000W
8 Ohms Bridged 1-channel	1 x 1200W
Output Circuitry	Class D
Frequency Response	10Hz - 1kHz (+/- 0.5dB) with variable Low & High Pass Filters
THD% 1/8 RMS, 1kHz	≤0.05%
Damping Factor (RMS, 1kHz)	≥300
Input Impedance	Balanced: 20K Ohms, RCA 10K Ohms
Power Supply	AC100 – 240V ~ 50/60Hz
Input Sensitivity (DSP adjustable)	1.4V
Protection	DC protection, Undervoltage protection, Smart overheat management, Soft startup protection, Output overload protection, Input/Output Limiters (DSP adjustable)
Cooling	Smart variable speed fans. Front to back venting
Input connectors	XLR, (RCA with included adaptor)
Output connectors	Binding Post, SpeakOn
Rack Space	1U
Amp Dimensions (W x H x D)	19 x 2 x 9.5in (483 x 51 x 241mm)
Net Weight	9.82lbs (4.5Kg)
Warranty	1 Year manufacture defect

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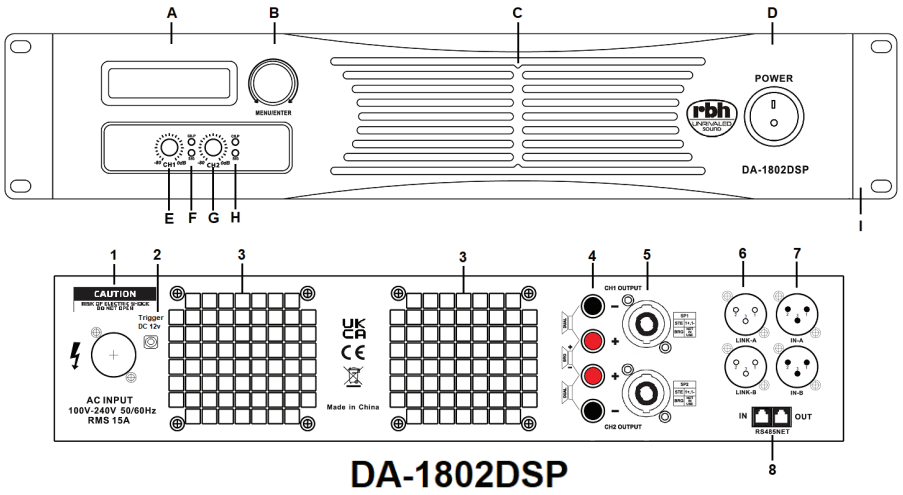

DA-1802DSP

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(In: Software Updates. Out: To other amp)

RBH SOUND
PROFESSIONAL POWER AMPLIFIER
DA SERIES

MODEL DA-1802DSP

AMPLIFIER TYPE	High Efficiency Class D w/DSP
DSP Module	2-channel DSP 24bit / 96khz
8 Ohms 2-channel	2 x 900W
4 Ohms 2-channel	2 x 1400W
8 Ohms Bridged 1-channel	1 x 1800W
Output Circuitry	Class D
Frequency Response	10Hz - 1kHz (+/- 0.5dB) with variable Low & High Pass Filters
THD% 1/8 RMS, 1kHz	≤0.05%
Damping Factor (RMS, 1kHz)	≥300
Input Impedance	Balanced: 20K Ohms, RCA 10K Ohms
Power Supply	AC100 – 240V ~ 50/60Hz
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Cooling	Smart variable speed fans. Front to back venting
Input connectors	XLR, (RCA with included adaptor)
Output connectors	Binding Post, SpeakOn
Rack Space	2U
Amp Dimensions (W x H x D)	19 x 3.875 x 11.5in (483 x 98.5 x 292mm)
Net Weight	13.5lbs (6.13Kg)
Warranty	1 Year manufacture defect

DSP pre-programmed to optimize RBH Subwoofer(s) performance.
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