



Model Number: C0-2400 16745

User Manual



warn



1. The device should not be placed in the following places: poorly ventilated, dusty, exposed to direct sunlight, high ambient temperature, or close to heat sources.
2. The equipment should be protected from rain and moisture.
3. This device cannot be placed in a container that can be filled with liquids.
4. The power plug and socket should be compatible.
5. Please do not disassemble the equipment by yourself. When equipment malfunctions, please contact the manufacturer for maintenance services. Non-professionals are not allowed to disassemble the machine by themselves to avoid accidents and endangering the safety of the operators.

The company reserves the right to change products and specifications without prior notice. The printing process may cause slight differences between the products in the information and the actual products. The actual products shall prevail.



■ Professional audio digital
power amplifier

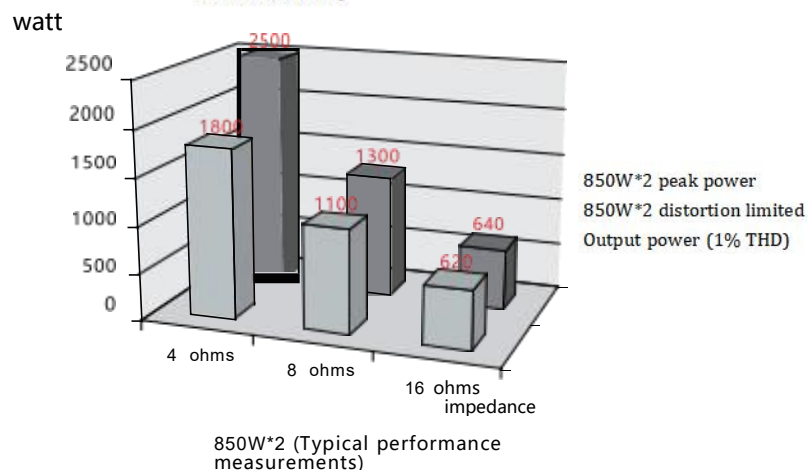
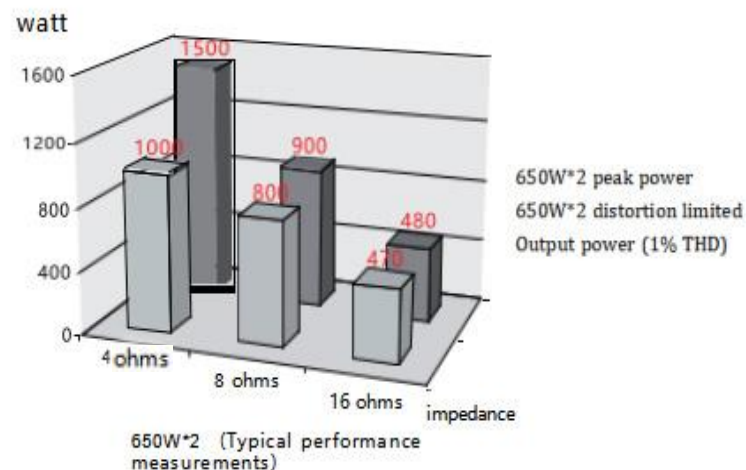
Contents

Safety instructions-----	P-02
Features -----	P-03
Factory settings-----	P-04
Installation and connection-----	P-05
Introduction to cabinet installation-----	P-06
Typical performance graph-----	P-07
Technical Parameters-----	P-10

Technical Parameters

Output power (1KHZ THD < 1%, all channel driver)	8Ω stereo	250W *2	300W *2	400W *2
	4Ω stereo	320W *2	480W *2	560W *2
	2Ω stereo	450W *2	670W *2	780W *2
Security protection system	DC protection	✓	✓	✓
	Short circuit protection	✓	✓	✓
	Sensitivity overheating management system	✓	✓	✓
	Overheating protection	✓	✓	✓
	Input overload protection	✓	✓	✓
	Output overload protection	✓	✓	✓
	Soft start protection	✓	✓	✓
Limiting protection		Can reach 10V		
Frequency response(W8Ω) 20HZ- 20KHZ		(±0.5dB		
Sensitivity(8Ω 1KHZ)		1V/ 32dB		
Input link terminal		XLR male and female		
Output link terminal		PSZ external binding posts		
input resistance	Balanced input	20KΩ		
	unbalanced input	10KΩ		
Signal-to-noise ratio (A-weighted, rated power 8Ω)		≥105dB		
Damping coefficient (1KHZ& 8Ω)		≥900		
Intermodulation distortion (20HZ- 20KHZ, half power)		≤0.02%		
Total harmonic distortion (20HZ- 20KHZ, half power)		≤0.03%		
Phase response (1W & 8 Ω, 20HZ-20KHZ)		≤±1 . 5°		
Slew rate		>60V/US		
Output circuit type		CLASS-D		
Installation space		1 U		
Cooling system		Fully intelligent system automatically adjusts with temperature changes		
Dimensions		483 X 45 X 304 mm		
Net Weight		3.6 kg		
Technical support and after-sales service		International technical support team: 3-year warranty (non-human damage)		

Typical performance graph



Safety instructions

Warning statement

Do not let heavy objects pile up or step on the power cord. Do not pull, pull or forcefully twist the power cord. Do not abuse the power cord. Unqualified power cords may cause fire or cause injury to people.

An improperly connected grounding device can cause electric shock.

If you have any doubts about whether the product is properly grounded, please ask a qualified electrician or maintenance personnel to check. Please do not try to change the power plug of the product without permission. If it does not fit the power socket, ask a qualified electrician to install an appropriate power socket.

Symbol Description



high voltage
sign

Warn users that there is non-insulating dangerous voltage inside the product, which may cause electric shock to the human body.



warning sign

Warn users that there are important events and maintenance instructions in the instructions provided with the product



ground
symbol

Warn users that the power supply must be reliably grounded when using the product

Precautions

1. Please read all safety precautions in detail before using this product.
2. This product must be grounded. If a fault occurs, the current will flow into the earth through the smallest ground resistance to reduce electric shock.
3. The power cord and power plug of this product are equipped with safety grounding. The power plug should be firmly inserted into an appropriate power socket. This power socket should
- When installed and grounded in full compliance with local regulations.
4. To reduce the risk of injury, close supervision is required when the product is used near children.
5. Do not use the machine in places with high humidity, such as near bathtubs, washbasins, kitchen sinks, basements with high humidity, or near swimming pools and lakes. Do not place containers filled with water or other liquids on the machine.
6. This product may produce a volume that may cause permanent hearing loss. Do not operate at a loud or uncomfortable volume for a long time. If you notice any hearing loss or ear sound, you should consult an audiologist.
7. This product should be installed in a well-ventilated area.
8. This product must be kept away from heat sources, such as electric heaters, electric blankets or other products that generate heat.
9. The power supply type of the product must comply with the event indication or the type marked on the product.
10. This product must be equipped with a power cord that meets safety certification. If you cannot insert the power plug into the power socket, please contact an electrician to replace the old socket. Do not damage the safety device of the power plug.
11. When not in use for a long time, please unplug the power cord from the power socket. When unplugging the power cord from the power socket, do not pull the power cord. You should grasp the power plug and pull it out.
12. Take care of it carefully and do not let debris or liquid fall into the machine through its gaps.
13. When the following conditions occur, qualified maintenance personnel should be entrusted to repair:
 - A. The power cord or power plug is damaged
 - B. Debris or liquid has fallen into the machine
 - C. product was exposed to rain
 - D. product cannot operate normally or has obvious changes during the performance
 - E. The product has been dropped or its appearance is damaged.
14. When a situation occurs that is not described in the user maintenance guide, do not attempt to repair it yourself. You should entrust qualified maintenance personnel to repair it.

Please keep these safety precautions

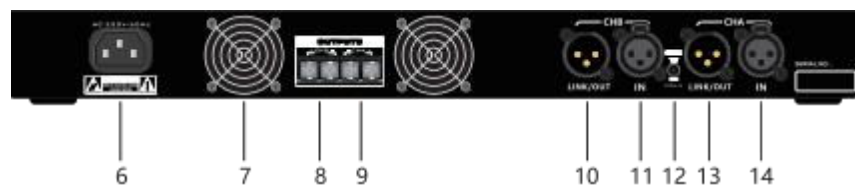
Features

Front panel



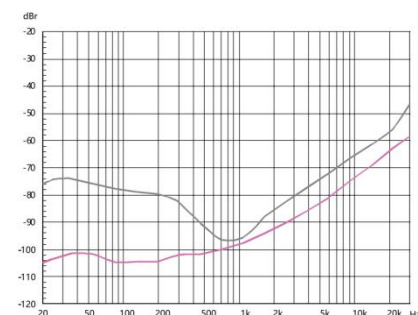
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|------------------------------------|------------------------------------|------------------------------|
| 1. Power switch | 4. Volume control channel A | ● "Limiter" A_B (CUP) LED |
| 2. Channel cooling air inlet vents | 5. A_B channel function indication | ● "Signal" A_B (SIG) LED |
| 3. Volume control channel B | ● "Protect" A B (PRO) LED | ● "Power indicator" (ON) LED |

Rear panel

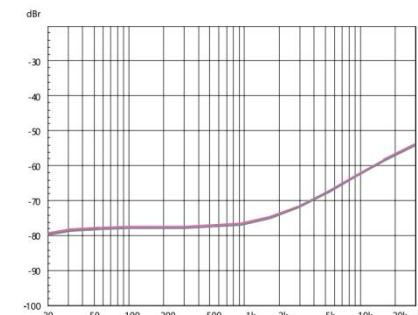


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|---------------------------------|---------------------------------------|--------------------------------|
| 6. AC220V power input interface | 10. CHB signal output interface | 14. CHA signal input interface |
| 7. Cooling fan | 11. CHB signal input interface | |
| 8. CHB output channel | 12. Stereo and well connection switch | |
| 9. CHA output channel | 13. CHA signal output interface | |

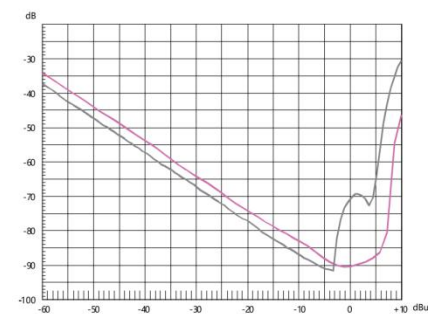
Typical performance graph



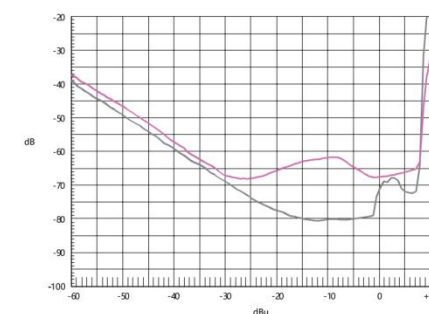
Channel Separation vs. Frequency @ 10 W/4Q Class D
(Typical Performance Measurements)



Common Mode Rejection Ratio Class D
(Typical Performance Measurements)

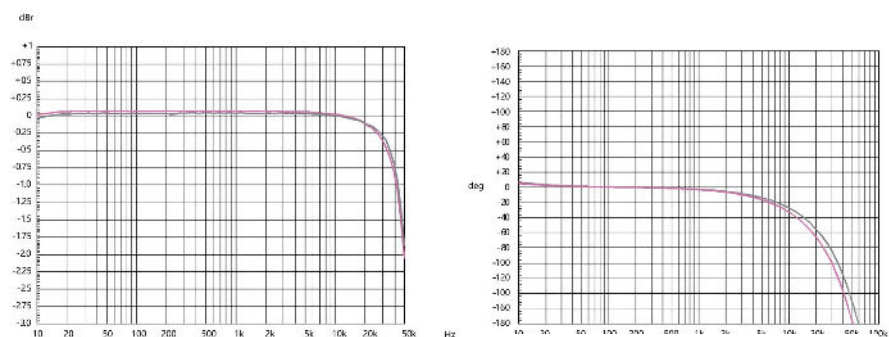


DIM Intermodulation Distortion @80 vs. Input Level Class D
(Typical Performance Measurements)

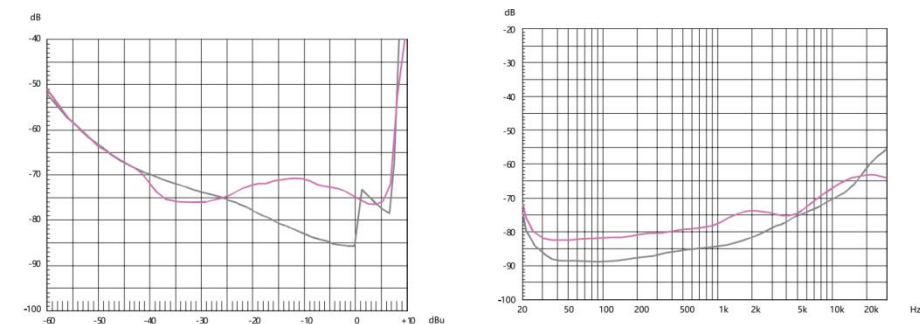


SMPTE Intermodulation Distortion (60 Hz and 7 kHz) @80 vs. Input Level Class D
(Typical Performance Measurements)

Typical performance graph



Gain and Frequency (Class D)
(Typical performance measurements)

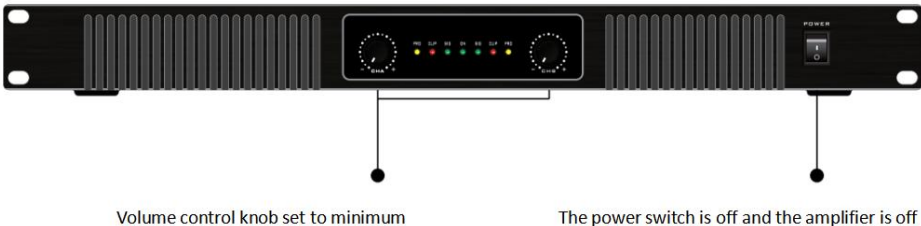


THD @ 1 kHz, 82 vs. input voltage (Class D)
(Typical performance measurements)

THD versus frequency, 10 dB below clip, 8Q (Class D)
(Typical performance measurements)

Factory settings

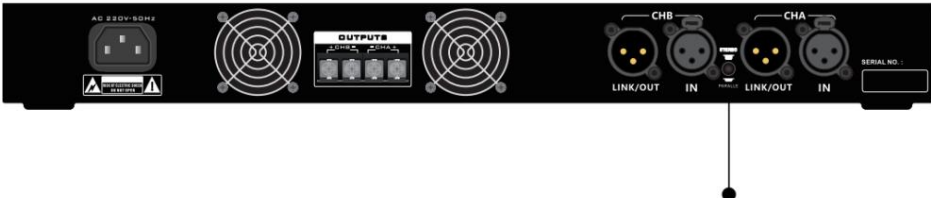
Front panel



Volume control knob set to minimum

The power switch is off and the amplifier is off

Rear panel



Factory set to stereo

Installation and connection

power supply

NOTE: Always disconnect the amplifier from the power source when installing or connecting it. Only fixed 200V or 240V operation is available. The amplifier should not be used for extended periods outside of the specified range (nominal voltage +10%) as doing so will affect overall performance. The rated power consumption and power supply current consumption are measured at 1/8 of the rated output power, that is, 800W*2 is 2x150W. Pink noise represents a classic music signal. Depending on the effective output power, the supply current and power can reach quite high (or quite low) values.

on/off switch

The "on/off" switch is a rocker switch located on the right side of the front panel. To turn on the amplifier, push the switch upward which initiates startup by activating the inrush current limiter. During power-on, the Clip and Signal LEDs will illuminate red for a few seconds. To turn off the amplifier, push the switch down.



NOTE: This switch does not disconnect the amplifier from power. The switch starts by activating the current limiting function, and once the power amplifier is connected to the mains, physical disconnection of the amplifier from the mains is accomplished by immediately unplugging the mains plug. The power plug must therefore be easily accessible. During thunderstorms or when the amplifier will not be used for long periods of time, unplug the power cord from the power source, or you can cut power to the amplifier by disconnecting all external poles from the power source. If power is removed while the amplifier is on, the amplifier will automatically restart when power is restored and will retain all settings prior to the power-off operation.

Introduction to cabinet installation

When mounting the amplifier to the rack rails, four screws and washers will be used.

