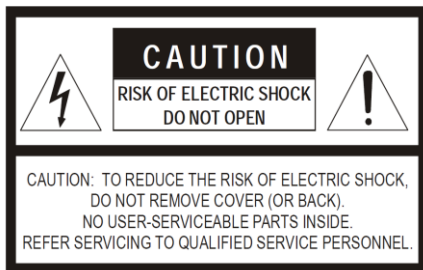


# **High Efficiency Power Amplifier**

## **Product Instructions**

**Model: X-DA1500**  
**X-DA2250**  
**X-DA4125**

## Safety Guidelines



### Danger

This sign reminds users of “dangerous voltage” on the product.



### Caution

This sign reminds users of important instructions attached to the product.

Safety guideline

In order to prevent electric shock, this equipment plug shall not be used as conductor to extend power supply line.

Do not block the equipment’s ventilation opening or put other equipment on it.

Safety guideline

Protect this equipment against rainwater or moisture so as to avoid fire or electric shock.

## Safety Precautions

Please carefully read and observe the following precautions before installing, operating or using this product.

### Electricity Utilization Safety

- Local electrical safety regulations must be observed for product installation and operation.
- The Company shall not be liable for fire or electric shock accidents caused by incorrect installation and mistake.

## Transportation Safety

- The product shall be protected against impact, violent vibration or liquid erosion during transportation, storage and installation.

## Environmental Requirements

- Do not install the product within the environment of extreme temperature or dust and mechanical vibration.
- This equipment shall be well ventilated and protected against dust, moisture, direct sunshine and violent during the use. It shall be kept away from radiating objects or heat sources and well ventilated. The optimum working environment temperature is 5-28°C and relative humidity <95%. If the equipment is in operation for a long time and ambient temperature is too high, it is recommended that effective measures should be taken to reduce temperature.
- Requirements on grid power supply voltage by the equipment: AC 220V (-15% to +10%) 50-60Hz. In case of too high, too low voltage or that fluctuating greatly, it is recommended that AC regulated power supply should be installed.
- As the product is not waterproof, do not expose it to rainwater or liquid environment so as to avoid damaging it.
- Put the equipment on solid level plane or install it on a rack.
- Do not put other articles on the equipment top.

## Safe Use Precautions

- The equipment shall be installed under the direction of professionals.
- Please carefully check power supply lines for damage prior to use. The lines must be connected to the equipment in strict accordance with identifications.
- Power supply plugs and sockets shall match each other. Otherwise, suitable sockets must be provided. Human damage to the sockets shall be prohibited.
- Power supply for the equipment shall be provided with sufficient capacity and independent and reliable grounding lines.
- Please ensure the equipment power supply grounding lines interconnected and connected with the ground. Otherwise, it will cause it abnormal, even damaged.
- There are HV lines within it. When turn on the power, do not open the equipment cover without permission so as to prevent electric shock.

- Prior to the first energization to start equipment, please check its external wiring for correctness so as to avoid damage.
- During the energization, please do not touch wiring terminals identified with “lightning” at random so as to avoid electric shock.
- Please do not change equipment connection circuits at random during energization so as to avoid damage.
- In case of failure to the equipment, please ask professional repair personnel to repair it. Otherwise, the Company shall neither dispose of any problems nor undertake relevant responsibilities.

## **Label and User’s Manual**

- Please pay attention to information on the product label such as type and power supply.
- Please carefully read the user’s manual and operate according to the instructions. The user’s manual is for reference for operation of products of different types. Specific operations of products of different types are not listed herein. In case of any problem, please contact the Company.
- Please maintain this Manual for future reference.

## Product Overview

In the X-618 system, the X-DA amplifier is used to amplify audio signal power and drive many broadcasting loudspeakers.

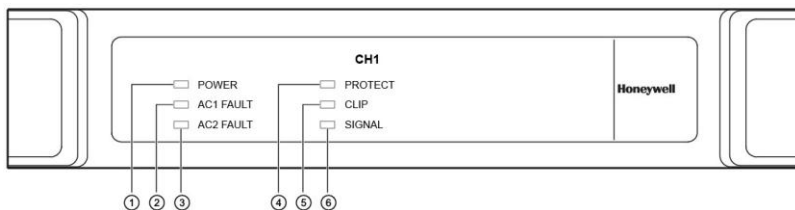
## Product Characteristics

- A CLASS-D power amplifier with high efficiency and energy conservation
- Contains 1/2/4 separated channels
- The total rated output power is 500W
- Each channel has 100V or 70V of output
- Supports balanced or unbalanced audio input
- The DA is cooled through forced air-cooling
- Able to automatically limit output voltage

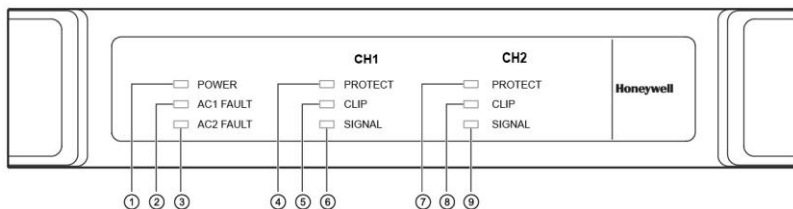
## Functions and Features

- Main and Backup Power Supplies
- Power Supply Protection
- Overheating Protection
- Overload and Short-circuit Protection
- Fault Monitoring and Output
- Self-test Function

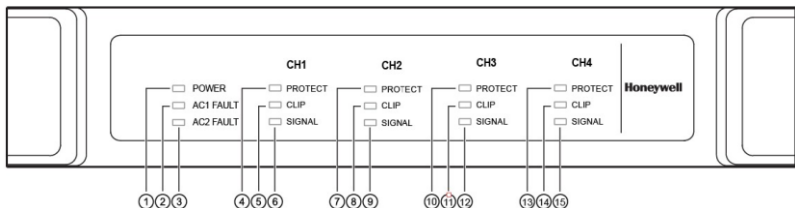
## Front Panel(X-DA1500)



## Front Panel(X-DA2250)

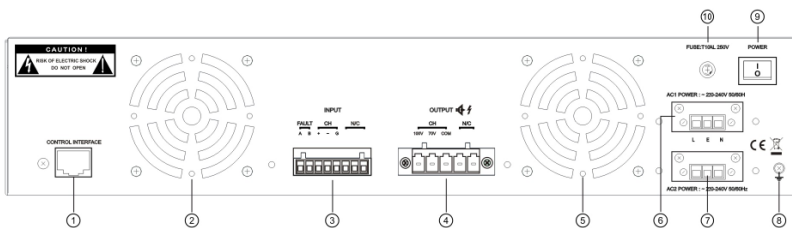


## Front Panel(X-DA4125)

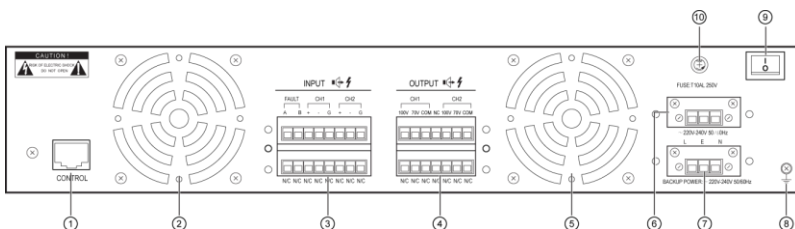


No.	Indicator Light	Description
1	POWER	DA power indicator. This light is green when the DA is working normally.
2	AC FAULT	Indicates the main power supply status. If this light is turned off, the main power supply is operating normally. If the light turns yellow, the main power supply has experienced a fault.
3	DC FAULT	Indicates the backup power supply status. If this light is turned off, the backup power supply is working normally. If the light turns yellow, backup power supply has experienced a fault.
4, 7, 10,13	PROTECT	DA protection indicator light. When the DA overheats, experiences over-current, over-voltage, or undervoltage, the DA automatically protects the equipment. In this case, the light turns yellow.
5, 8, 11, 14	CH1 /2/4 CLIP	Peak clipping indicator light. When the input signal exceeds the rated peak value, the indicator light turns red.
6, 9, 12, 15	SIGNAL	Signal indicator light. This light turns green and fluctuates depending upon the signal intensity. If the light is off, there is no input signal.

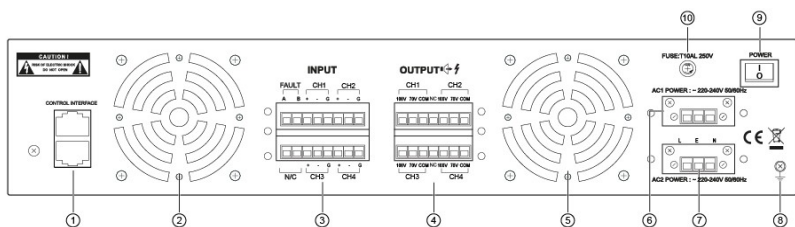
## Rear Panel(X-DA1500)



## Rear Panel(X-DA2250)



## Rear Panel(X-DA4125)



No.	Port	Description		
1	CONTROL INTERFACE	Connects to an external audio input device		
2	Cooling fan			
3	Audio input and control ports	FAULT	A B	If a DA fault occurs, it is protected, or it is self-tested, ports A and B experience a short circuit.
		CH1/2/3/4	+	Balanced positive input
			-	Balanced negative input
			G	Grounding (Connect to the “-“ port if the input is an unbalanced input connection.)
4	Audio output ports	CH1/2/3/4	100V	100V high impedance audio output
			70V	70V high impedance audio output
			COM	Common
5	Cooling fan			
6	Main power supply power port	Supplies electricity to the main power supply		
7	Backup power supply power port	Supplies electricity to the backup power supply		
8	Grounding terminal	Connects to the grounding wires		
9	Power switch	Turns the power on and off		
10	Main fuse	T10AL250V		

## Specifications

Parameters	Values
Rated output power	1 X 500W    2 X 250W    4 X 125W
Main power supply voltage	~ 220V-240V 50/60Hz
Backup power supply voltage	~ 220V-240V 50/60Hz
Power dissipation	<720W
Main power supply fuse	T10AL 250V
Output voltage	100V / 70V
Frequency response	70Hz~18KHz (+1dB ~ -3dB)
Input sensitivity	1.414V <sub>RMS</sub>
Impedance	20k ohm
Signal-to-noise ratio (SNR)	>100dB (with A-Weight)
Nonlinear distortion	<0.05% ( at 1/3 rated power, 1kHz)
	Power supply, main power fault and backup power fault
Indicator	1 Channel    1 Signal Led、1 Clip Led、1 Protect Led
	2 Channels    2 Signal Leds、2 Clip Leds、2 Protect Leds
	4 Channels    4 Signal Leds、4 Clip Leds、4 Protect Leds
Channels	1                    2                    4
Environment humidity	< 95%, without condensing
Operation temperature	0°C~+40°C
Storage temperature	-10°C~+55°C

Product dimensions (width x height x depth)	482 mm×88 mm ×420 mm		
Package dimensions (width x height x depth)	580 mm×235 mm ×552mm		
Net weight	11.3Kg	12.2 Kg	12.9Kg
Gross weight	14.4Kg	15.3 Kg	16Kg

## Packing List

Number	Component Name	Quantity
1	main appliance	1
2	Network cable	(X-DA1500/X-DA2250)
		(X-DA4125)
3	Input cable terminal	(X-DA1500/X-DA2250)
		(X-DA4125)
4	Output cable terminal	(X-DA1500/X-DA2250)
		(X-DA4125)
5	Safety shield	(X-DA2250/X-DA4125)
6	Screws	(X-DA2250/X-DA4125)
7	AC power cable	1
8	Power connector kit	2
9	Fuse (10A)	1
10	Plastic foot	4
11	Product manual	1

# Honeywell

[www.honeywellav.com](http://www.honeywellav.com)

Life Safety A/V (Guangzhou) Co., Ltd

Address: No. 257 Junye Road, Guangzhou GETDD East  
510530, China

Tel: +86 (0)20 2839 9600

Fax: +86 (0)20 2820 8706

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