X-DA2250-B
High Efficiency Power Amplifier

- **Two channel 250W high efficiency Class-D amplifier**
- **Automatic protection**
- **Fault detection**
- **Effective ventilation using forced air cooling fan**
- **CE compliant**

X-DA2250 high efficiency power amplifier provides audio signal amplification for the X-618 Digital Public Address and Voice Alarm System. X-DA2250 is reliable, efficient and light in weight.

Features

INPUT/OUTPUT

X-DA2250 supports both balanced and unbalanced audio inputs.To receive unbalanced audio inputs, simply connect the ground port with the negative input port to the rear panel.

X-DA2250 can receive audio signal from X-DCS2000/EN via Ethernet through the RJ45 standard port.

FAULT DETECTION

X-DA2250 can self-protect from overheat, over current, over voltage and under voltage. For example, when the internal temperature reaches its critical limit, the overheat protection circuit will shut down the power amplification module and activate the protection indicator light on the front panel.

X-DA2250 can detect power supply errors automatically during operation. The built-in fuse will provide over current protection to the main power supply.

When a shout circuit is detected in the main power supply circuit, the power will be automatically shut down. The backup power supply will then be enabled to replace the main one.

When a fault or self-protection or self-testing happens, its audio input fault port will short circuit and a fault signal will then be sent to the control unit in the network.

SAFETY

The device adopts lightweight design.The front panel is made of UL94V-0 fire proof ABS material, protecting the machine under extreme conditions. A cooling fan is equipped for heat exhaustion so that the machine can maintain high working efficiency.

VOLUME CONTROL

When HN-D32N Noise Detector is installed, X-DA2250 can adjust volume according to the ambient noise automatically to ensure high sound intelligibility.

INDICATOR LIGHTS

- Power light
- AC fault light x 2
- Signal light (for each channel)
- Clip light (for each channel)
- Protection light (for each channel)

INTERFACES

- Main power and backup power port
- Audio inputs (balanced or unbalanced)
- Audio outputs (100V or 70V)
- RJ-45 net cable port

Certification and Standard

Category	Region	Certification
Safety	Europe	CE Complied
Safety	Europe	CB Certified
Material	USA	UL94V-0 Fire-proof ABS material

Technical Specifications

Parameter	Value
Nominal output power	2 × 250 W
Main power supply voltage	~ 220 - 240 V, 50/60 Hz
Backup power supply voltage	~ 220 - 240 V, 50/60 Hz
Power consumption	< 720 W
Main power supply protection	T10 AL 250 V
Speaker output voltage	100 V / 70 V
Frequency response	70 Hz -18 kHz (+1 dB ~ -3 dB)
Input sensitivity	1.414 V_{RMS}
Impedance	20 kΩ
SNR	> 100 dB(withA-Weight)
Non-linear distortion	<0.05% (at 1/3 rated power, 1 kHz)

Indicator lights	Power indicator light Main power fault light Backup power fault light Signal lights Peak clipping lights Equipment protection lights
Number of channels	2
Operating conditions	95 % humidity, 0 °C ~ +40 °C (0 ~ 104 °F) (no condensation)
Storage temperature	-10 °C ~ +55 °C (14°F ~ 131°F)
Cooling method	Air cooling
Product dimensions (W×H×D)	416 × 88 × 483 mm
Package dimensions (W×H×D)	489 × 186 × 568 mm
Net weight	12.2 kg
Gross weight	15.3 kg

Packing List

Component	Quantity
X-DA2250 High Efficiency Power Amplifier	1
Network cable	1
Input cable terminal	1
Output cable terminal	1
AC power cable	1
Power connector kit	1
Warranty card	1
Quality certificate	1
Product manual	1