

X-DA2250EN

High Efficiency Power Amplifier
with 24 VDC Backup Power Supply

X-DA2250EN is the Class-D amplifier and it is lighter, more stable, and high efficiency. The audio transmission is completely digitalized which makes it free from interference and easy to be controlled. It also has 24 VDC backup power supply conforming to international voice alarm standard which is the perfect choice for safety required applications.

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

Features

Input/Output

X-DA2250EN 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-DA2250EN can receive audio signal from X-DCS3000 via Ethernet through the RJ45 standard port.

Fault Detection

X-DA2250EN 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-DA2250EN can detect power supply errors automatically during operation. The built-in fuse will provide over current protection to the main power supply.

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. The amplifier can work without main power in emergency.



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Volume Control

When X-ND100 Noise Detector is installed, X-DA2250EN can support X-DCS3000 to realize auto volume control function based on ambient noise level change.

Indicators

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

Interfaces

- Main power and 24 VDC backup power port
- Audio inputs (balanced or unbalanced)
- Audio outputs (100V or 70V)
- RJ-45 net cable port

FEATURES AND BENEFITS

- Two-channel 250W efficiency Class-D amplifier
- Automatic protection
- With 24 VDC backup power supply
- Fault detection
- Effective ventilation using forced air cooling fan
- UL 60065, FCC compliant

X-DA2250EN

TECHNICAL SPECIFICATIONS

PARAMETERS	VALUES
Rated Power	2 × 250 W
Main Power Supply Voltage	~ 100 - 240 V, 50/60 Hz
DC Backup Power Operating Voltage	21.5 V - 28.5 V DC
Power Consumption	< 700 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 (with A-Weight)
Non-linear Distortion	< 0.05 % (at 1/3 rated power, 1 kHz)
Indicators	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)	482 × 88 × 420 mm
Package Dimensions (W×H×D)	580 × 235 × 552 mm
Net Weight	11.7 kg
Gross Weight	14.8 kg

Note: Honeywell reserves the right, without notification, to make changes in product design and/or specifications.

PACKING LIST

COMPONENT	QUANTITY
X-DA2250EN High Efficiency Power 1 Amplifier	1
Network Cable	1
Input Cableterminal	1
Output Cableterminal	1
AC Power Cable	1
Power Connector Kit	1
Warranty Card	1
Quality Certificate	1
Product Manual	1

CERTIFICATION AND STANDARD

CATEGORY	REGION	CERTIFICATION
Safety	Europe	CE Complied
Safety	Global	CB Certified
Safety	USA	UL60065 Certified

ORDERING INFORMATION

ORDERING INFORMATION	DESCRIPTION
X-DA2250EN	X-DA2250EN High Efficiency Power Amplifier 2×250W with 24 VDC backup power supply

Honeywell

12 Clintonville Road
Northford, CT 06472, USA
Hwl.co/Notification

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