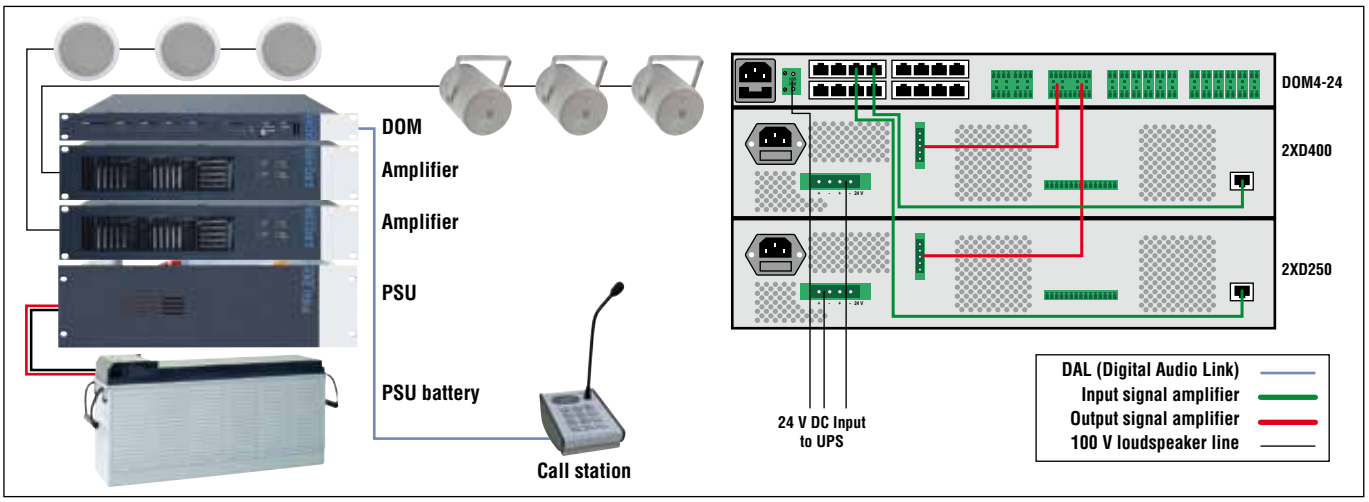

System Overview/ Cabling for 250 W and 400 W Power Amplifiers with DOM4-24

Technical Data

Type	2XD250	2XD400
Rated power output (sin.)	2 x 250 W	2 x 400 W
Voltage consumption (230 V AC)	2.8 A	4.5 A
Voltage consumption (24 V DC / Sinus continuous tone*)	25 A	40.5 A
Voltage consumption (24 V DC / Announcement / 1/3 load) *	8.75 A	13.9 A
Voltage consumption (24 V DC / Announcement / 1/8 load) *	3.6 A	5.6 A
Power consumption in standby mode (230 V) separated f. mains supply	approx. 0 VA	approx. 0 VA
Dissipation loss / 230 V AC (Idle)	25 W max.	30 W max.
Dissipation loss / 24 V DC (channels off)	3 W max.	3 W max.
Dissipation loss / 24 V DC (channels on)	10 W max.	12 W max.
Weight	approx. 16.5 kg	approx. 19.0 kg

*The voltage consumption is for both amplifier channels together when both outputs are wired with maximum speaker power (2 x 250 W or 2 x 400 W).

General Technical Data

Nominal voltage	230 V AC
Nominal frequency	50 ... 60 Hz, +10% / -5%
Emergency power supply	24 V DC
Functional principle	Class D
Transmission frequency band (-1 dB)	50 Hz ... 22 kHz
Signal-to-noise ratio	> 90 dB, A - unweighted
Harmonic distortion at full load / 1 kHz	< 0.03 % Channel separation > 42 dB
Input impedance	> 20 kΩ, el. balanced
Ambient temperature during operation	-5 °C ... +55 °C
Relative humidity	40% ... 93%, (no condensation)
Housing color	gray, similar to RAL 7016
Dimensions (B x H x T)	483 x 88 x 402 mm / 2 HU, 19”

Order Information

	Part No.
Power Amplifier 2 x 250 W / 100 V	580231
Power Amplifier 2 x 400 W / 100 V	580232
DOM-XV cable for amplifier audio inputs and remote control	583491
XV-DOM cable for amplifier and audio outputs (for 2 amplifiers)	583477.21

Additional order information can be found in the “Voice Alarm Systems” product group catalog.

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Part No.795934.G0 • 02/2011 • Technical information is subject to change without notice!

Honeywell

VARIODYN® D1 Power Amplifier 2 x 250 W, 2 x 400 W, Class D

- **Power amplifier, 2-channel, Class D, 100 V outputs**
- **Two models available: 2 x 250 W / 2 x 400 W**
- **80% efficiency factor**
- **24 V DC emergency power supply**
- **Control and monitoring via DOM**
- **Integrated electronic protection against thermal overload and short-circuits during output**
- **EN 54-16-approved, CPD Number 0786-CPD-20997**
- **VdS-approved, VdS Number G210122**

Application

The power amplifiers have two independent amplifier channels and100 V toroidal core output transformers and are compatible with the VARIODYN® D1 System. The power amplifiers are controlled and monitored by the VARIODYN® D1 DOM4-8 (Digital Output Module) and DOM4-24 modules.

Connections

- Combined LF / control inputs
- Dual-channel 100 V output
- 230 V AC Power supply
- 24 V DC emergency power input

General indicators

- 230 V AC mains voltage
- CPU status
- Collective fault
- 24 V DC emergency power supply

Indicators per amplifier channel

- Operation
- Amplifier channel status
- Amplifier channel fault
- Clip display

LF / Control

Both LF inputs and the control input are connected to the VARIODYN® D1 DOM module via a cable (Part No. 583476.02.

100 V Outputs

The symmetrical ungrounded 100 V outputs are available at the connector labeled “OUTPUT 100 V”.

The two 100 V outputs are connected to the VARIODYN® D1 DOM module using a cable (Part No. 583476.02).

In the event that the included heat sink reaches a critical temperature, the relay load for this channel is disconnected and then reconnected upon reaching a safe temperature.

Power Connection, Battery Connection

A low power socket for the connection of the mains voltage as well as a mains fuse are located on the back of the amplifier. A mains cable is included with delivery. The power amplifier can only be operated via a three-wire system feed with a protective ground wire.

The 24 V emergency (uninterrupted) power supply (UPS) is connected to a corresponding 2-pin plug.