

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

- Power amplifier, 2-channel, Class D, 100 V outputs
- Two models available: 2 x 250 W / 2 x 400 W
- Power output in accordance with the requirements of EN 54-16
- 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
- Complies with IEC BS EN 60268-3, 55013, 55020 standards Class D
- Temperature controlled fans



The power amplifiers have two independent amplifier channels and 100 V toroidal core output transformers and are compatible with the VARIO-DYN® D1 System. The power amplifiers are controlled and monitored by the VARIODYN® D1 modules DOM4-8 (Digital Output Module) and DOM4-24.

Connections

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

General Displays

- Power
- CPU state
- Fault
- 24 V Emergency power supply

Displays per amplifier channel

- Operation
- State amplifier channel
- fault amplifier channel
- Clip

NF / Control

Both NF 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 power supply is connected to a corresponding 2-pin plug.







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

Technical Data

Туре	2XD250	2XD400
Rated power output (sin.)	2 x 250 W	2 x 400 W
Power consumption (230 V AC)	2.8 A	4.5 A
Power consumption in standby mode	approx. 0 VA separated	approx. 0 VA separated
(mains supply)	from mains supply	from mains supply
Gewicht	approx. 16.5 kg	approx. 19.0 kg

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. symetric	
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 1 amplifier)	583476.21
XV-DOM cable for amplifier and audio outputs (for 2 amplifiers)	583477.21
Mounting kit 1	583703

For further order data please refer to our "Voice Alarm Technology" product line catalogue.

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