



PA DM550

550W Modular Amplifier - 48Vdc secondary
Emergency power supply

Description

Modular Professional Power Unit 250W - 70/100V. This new series of audio power amplifiers was designed to fulfil an evolving market in the most flexible and professional manner. The new range responds to precise operating criteria and was designed and tested to guarantee total reliability of use, also with continuous operation. Thanks to the use of power supply switching with SMPS (switch mode power supply) technology and to the constant voltage output 70/100V obtained electronically without transformers, it was possible to design the amplifier in only one rack unit, succeeding in containing the weight and size. La serie DM Power e stata concepita per essere installata in cestello rack 19 3U in grado di accogliere n? 8 moduli affiancati.

FEATURES

- o Modular Professional Power Unit 550W 70/100V
- o Speaker short-circuit and overload protection circuit
- o Multi-Level Protection and Self Fault Recovery
- o Energy Saving Circuit
- o On Board DSP
- oLED indicators
- o Master Level control
- o Low and high tone adjustment
- o PA-HF Filter with rear switch
- o VOX threshold adjustment





- o MIC/Line input gain adjustment
- o Balanced Line Input on Euroblock terminal
- o Priority Mic/Line Balanced Input on RJ45 socket
- o Two selectable outputs at Constant voltage (70/100V) on Euroblock terminal
- o 48Vdc emergency power supply
- o Maximum 8 modules in a rack case MDA8C (3U rack 19)

Technical Specifications PA DM550

Model series "DM.POWERDM550

Constant voltage speaker output 100V - 70V selectable

Max Output power RMS @ 100V 550W

Minimum Load Impedance 18.2 Ohm

Frequency response 50Hz / 20KHz ± 3 db 440Hz / 20KHz ± 3 db (selectable)

S/N Ratio > 110 dbA (20Hz / 20KHz)

Distortion (THD+N)

Input Impedance 10K Ω

Input Sensitivity (mV) 100/1000 (Priority Input) - 550 (Line Input)

Maximum Input Voltage (V) 5.50 Vp-p / +8.0 dBu

DSP audio processing 24bit 48KHz, Volume control, Mic Gain control, Soft-VOX, Tone controls

AC POWER SUPPLY

Input Voltage (V~) 230VAc (+10% / -15%)

Input Frequency (Hz) 50 / 60 $\pm 10\%$

Max Average Input Current 1.9A (pink noise, max load)





DC POWER SUPPLY

Input Voltage (Vdc) 48V.DC nominal. 42,0 / 55,0 Vdc

No-Signal current consumption 50mA

Max Average Input Current 13.0A (pink noise, max load)

INPUT/OUTPUT CONNECTORS

Primary power supply (V~) IEC panel connector

Auxiliary power supply (V.-/+ dc) Polarized panel connector

Speaker Output Terminal block (Euroblock)

Signal Input Terminal block (Euroblock)

MIC Input Polarized panel connector/ RJ45

Std-By Terminal block (Euroblock)

CONTROLS & INDICATORS

Indicators ON/Std-By, Signal/Clip/Limit, Protect/Temp

Controls Master Volume, HF, LF, 440Hz Cut, Mic Gain, Vox Gain, Std-By

PROTECTION

Speaker overload protection Current limiter

Speaker short-circuit protection Output Disconnection

Thermal management Fan Speed, output signal attenuation, output disconnection

DC power protection Fuse, polarity inversion

Mains power protection Fuse

Mains power Spike protection 480 Joules, 2ms

Clipping protection DSP based amplitude limiter

GENERAL DATA





Audible Noise (dB@1mt)

Operating temperature (°C)-5 / 40

Relative humidity (%)

Dimensions (LxHxP) (mm)116 x 53 x 367

Weight (kg)2,15

