

DYNACORD®

POWERMATE 600

Technical Specifications

Rated Output Power,

20 Hz ... 20 kHz, THD≤0.2%
 into 4 Ω 2 x 300 W
 into 8 Ω 2 x 150 W

Maximum Midband Output Power

1 kHz, THD≤1%
 into 4 Ω 2 x 340 W
 into 8 Ω 2 x 200 W

Maximum Output Voltage

of power amplifier, no load 43 Vrms

THD at 1kHz, MBW=80kHz

MIC input to Main L/R output, +16 dBu < 0.006%

Power amplifier input to Speaker L/R output < 0.08%

DIM 30, power amplifier < 0.03%

IMD-SMPTE, power amplifier, 60Hz, 7 kHz < 0.2%

Frequency Response, -3dB ref. 1kHz

Any input to any Mixer output 15Hz ... 60kHz

Any input to Speaker L/R output 30Hz ... 40kHz

Crosstalk, 1kHz

Fader and AUX-Send attenuation > 80 dB

Channel to channel > 70 dB

CMRR, MIC input, 1kHz > 80 dB

Input Sensitivity,

all level controls in max position

MIC input - 74 dBu (155 µV)

Line input (Mono) - 54 dBu (1.55 mV)

Line input (Stereo) - 34 dBu (15.5 mV)

Power Amplifier Input + 6 dBu (1.55 V)

Maximum Level, mixing desk

MIC inputs + 11 dBu

Line inputs + 30 dBu

All other inputs + 20 dBu

Record Send output + 14 dBu

All other outputs + 20 dBu

Input Impedances

MIC 1.8 kΩ

2 Track Return 10 kΩ

All other inputs > 15 kΩ

Output Impedances

Record Send 1 kΩ

Phones 47 Ω

All other outputs 75 Ω

Equivalent Input Noise,

MIC Input, A-weighted, 150 Ω -130 dBu

Noise, Channel inputs to

Main L/R outputs, A-weighted

Master fader down -90 dBu

Master fader 0 dB, Channel fader down -89 dBu

Master fader 0 dB, Channel fader 0 dB,

Channel gain unity -83 dBu

Signal/Noise-Ratio,

power amplifier, A-weighted 105 dB

Equalization

LO Shelving ± 15 dB / 60 Hz

MID Peaking ± 12 dB / 2.4 kHz

HI Shelving ± 15 dB / 12 kHz

Master EQ, 7-band, Stereo ± 10 dB

Power Consumption

at 1/8 maximum output power, 4 Ω 450 W

Dimensions, (WxHxD), mm

455,5 x 175,8 x 340,6

Weight, including lid

13 kg

Optional

Rack-Mount-Kit PM600, (NRS90239) 112 741

Wall-Mount-Kit PM600, (NRS90242) 112 742

Footswitch FS11 110 693

Technical Specifications PowerMate600 Mixing Section in rated condition, Unity Gain (MIC Gain 20 dB), all faders position 0 dB, all pots in mid position, Master fader +6dB, amplifier rated output power into 8 ohms, one channel driven, unless otherwise specified.

! Possible applications

„Universal“ is the only word, that comes to mind when trying to describe the offered possibilities! Here are some examples for the multitude of possible applications:

Touring as a one-man-show in clubs and lounges, you need a system that you can transport and install in no time and without any additional help. But cutting down in effects and sound quality is out of the question. The amount of channels provided by the PowerMate 600 suits your two keyboards, two MIDI expanders and two microphones ideally. And from the description of the extras, like for instance the „STANDBY“-function and the „2Track“-connector, you can already tell that this is what you have been always looking for.

For your school, your sports club center, or any other institution alike, you are looking for a compact sound reinforcement solution for occasional festivities and general meetings? In the past you have used up to six microphones, e. g. for the speaker at the desk, the master of ceremony, the guitar-duo on the stage or similar tasks. But cabling, complicated operations, setting-up and tearing-down the entire system was never too much to your liking. The PowerMate 600 gives you all possibilities at hand. Everything is clearly structured, extremely compact in size and easy to store, without any unnecessary effort. Built-up within minutes and providing breathtaking effects, the PowerMate offers the solution for basically any occurring situation.

Four musicians that are touring through smaller clubs, where only the amplification of vocals and acoustic instruments is necessary? Or, you are a member of a group that frequently performs at festivals or in bigger dimensioned halls, where either a major PA-system already exists or is rented for the occasion. But, during the

rehearsals, when the vocals are reproduced via the old guitar amp, the curve of your motivation level always points down!

The PowerMate 600 is the perfect solution - whether for multi-harmony vocals during rehearsal, the classic jazz trio

in the live club, or the first „major gig“ at your schools prom night

- your sound will always speak for itself! Sufficient power reserves and truly astonishing effects may sound like magic - but with DYNACORD equipment they are no witchcraft!



3 YEARS WARRANTY

As for all our products the PowerMate 600 is also supplied with a three year warranty. Quality under the label „Made in Germany“ pays off - a fact that you will also realize when it comes to „value for your money“!



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www.dynacord.de

Power Mate

DYNACORD®
POWERMATE600



POWER



EFFECTS



EXTRAS

ENGLISH



POWER, EFFECTS, EXTRAS - high performance AND compact size!

The PowerMate 600 keeps up with DYNACORD's tradition of building excellent power mixers. A tradition that already began fifty years ago. With the PowerMate 600, the integration of mixing console, power amplifier and effect unit into a single, compact enclosure, without giving up on the performance capabilities of any of the incorporated parts, reaches a new peak. Never before, powerful performance, useful features, and quality sound were available in such compact size and for that little amount of money.

POWER? - POWER

Despite the fact that the PowerMate 600 is extremely compact and small, it offers an output power capacity of 2 x 300 watts at 4 ohms providing an immense dynamic range with an outstandingly little amount of distortion and intermodulation.

In addition to that, the power amplifiers employ numerous protective and processor-controlled functions. For instance the **DYNACORD patented LPN-Filter**: it eliminates common errors in the transient behavior of typical PA-cabinets and in this way provides a powerful bass response that is dry to the bone. Protection circuitry against short-circuit, RF or DC at the output and thermal overload guarantee highest operational security and reliability. Of course, all power output connections are carried out as Speakon-type sockets.



EFFECTS? - EFFECTS

How about a doubling effect and some reverb for the vocals? Or how about a nice and smooth hall room for your guitar? Or maybe you would like a slightly flanging chorus effect for your E-Piano to create the magic sound of the legendary Fender Rhodes?

Using the PowerMate 600 the realization of these effects is no problem anymore. And, grace to the user and application-oriented programming of the presets, selecting the desired effect can be done by pushing a SINGLE button. Two parallel operating, mixable 18-Bit stereo digital effect units provide the possibility to create sounds that you would normally expect from very expensive studio equipment only. Everything is offered: rooms and plates, echo-reverb, chorus-reverb, mono/stereo-delay, modulated delays like chorus or flanger and a whole selection of special FX. The 2 x 99 presets can be conveniently selected via the Up/Down buttons and the according program numbers will appear on the display. The effect-return signals are added to the master-mix via fader controls. If desired, the effect signal can also be routed to the stage-monitors, which provides an improved sound and therefore perfect control for the artist on stage. Switching the effects is possible through the „FX ON“-switch with integrated LED for status indication or via foot-switch-controller (optionally available: FS 11). So - everything is there to provide you with an *effective* sound!



EXTRAS? - EXTRAS

Many little (or better to say: big) extras make the PowerMate 600 the all-round solution, which it actually is. Several of these extras reveal their potential when operating the PowerMate: Of course, even on first sight, the enclosure is extremely compact and well designed - but being installed into your keyboard-rack system or when you are looking for a place to store at home, you will really learn to appreciate the benefits of this solution. Another point is the quest of transportation: To wrap a power mixer in a blanket is not professional at all. A flight-case mostly is a severe question of money - but the rigid metal cover of the PowerMate offers complete protection during transportation and it also looks good. The recessed handles make transportation so easy that it becomes a kids game, literally.





The six **Mic/Line channels** incorporate electronic balanced XLR-type and phone-type input connectors, gain controls that allow optimally matching the input levels, and 3-band EQ-sections with perfectly tailored start frequencies.

The „**FX**“-control determines the amount of the input signal that is send to the effect units. The „**AUX**“-control sets the input signal level that is send to the AUX-output, which can be used for the connection of the stage-monitor system.

The „**PAN**“-control allows you to adjust the position of the input signal in the stereo image while the precise and smooth setting of a channel's volume is done via the corresponding **60mm fader** control.

The channel pairs 7/8 and 9/10 are configured as true **stereo channels** and are meant for the connection of stereo signal sources, like keyboards, drum computers, CD-players, etc. Additionally, the PowerMate 600 has a „**2Track send/return**“ connector which allows the direct feed from cassette decks or MD-recorders. The 2Track send/return stays active even though the PowerMate is set to „STANDBY“. In this way all input channels are muted without the need to change the actual fader positions. Nevertheless, the tape deck signal can pass, which for instance provides the possibility to transmit intermission music, where the program's volume is adjusted using the „**2TRACK RET**“-control.

The **2 x 7-band stereo equalizer** allows precisely matching the transmitted signal to individual environmental and acoustic conditions. The center frequencies of the seven bands are set to values that allow the achievement of optimum results.

An additional **monaural output** and a metering instrument indicating the **master level** complete the output section.

As you can see - a lot of extras show a lot of effect!

