

# 3

# PowerMax

Systems  
ENGLISH

# 3 & 5



**HIGHEST** requirements for modern audio installations regarding their sound pressure level, coverage and sound quality can only be achieved using active multi-component loudspeaker systems where the audio signal's individual frequency ranges are separately amplified and reproduced.

**ACTIVE** 2-way installations with additional sub woofer systems probably offer the best price-performance ratio. The low frequency range of the audio signal is reproduced by the sub woofers while high-quality full range cabinets take care of the Mid/Hi frequencies and vocals.

**THE** PowerMax 3 system - the direct successor of the legendary P3 Systems - consists of two 12" 2-way cabinets F120, two 15" sub woofers F5, one system power amplifier PM2600, four system cables and two loud-speaker stand poles. So, this compact, active 2-way system is ready for operation. The system power amplifier includes the PowerMax controller and provides 2 x 700 W in the bass and 2 x 600 W in the Mid/Hi range. The system cabling ensures quick and easy installation and highest operational reliability. It is possible to operate two Mid/Hi cabinets and two sub woofers per stereo side on a single PM2600.

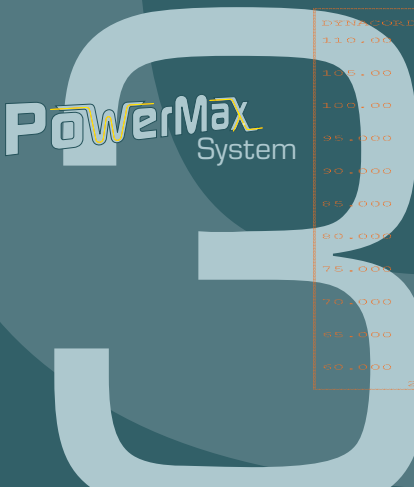
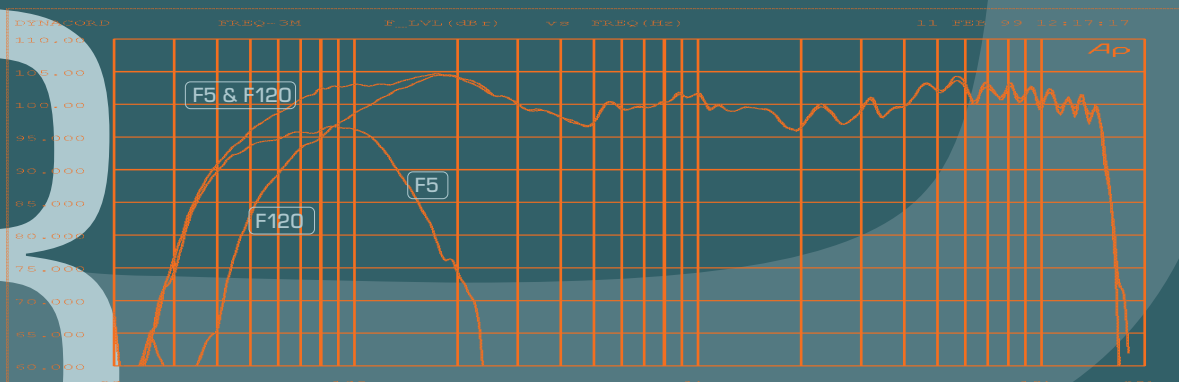
3 year warranty.



## PowerMax 3 System

- 2 x F120
- 2 x F5
- PM2600
- 4 x Speakon system cable 15m
- 2 x loudspeaker stand poles

PowerMax 3 system: F5 & F120 on a PM2600



**ONE** of the essential advantages when using active 2-way systems with additional sub woofers lies in the fact that the vocals are not divided between several speaker systems. This, in return, offers more convenience when adjusting the sound system. Different than with active 3- or 4-way configurations – complicated analyzing and measuring sound fields are not necessary.

**ON** small stages or rooms, using only a monaural sub woofer is absolutely sufficient, since the locating of low-frequency sound is merely impossible under these conditions. For bigger stages it is indispensable to use separate sub woofers for both sides. Otherwise, the level difference between bass and treble would result in an audible degradation of the overall sound. Of course, incorporating a centrally located sub woofer can additionally improve the sound quality.



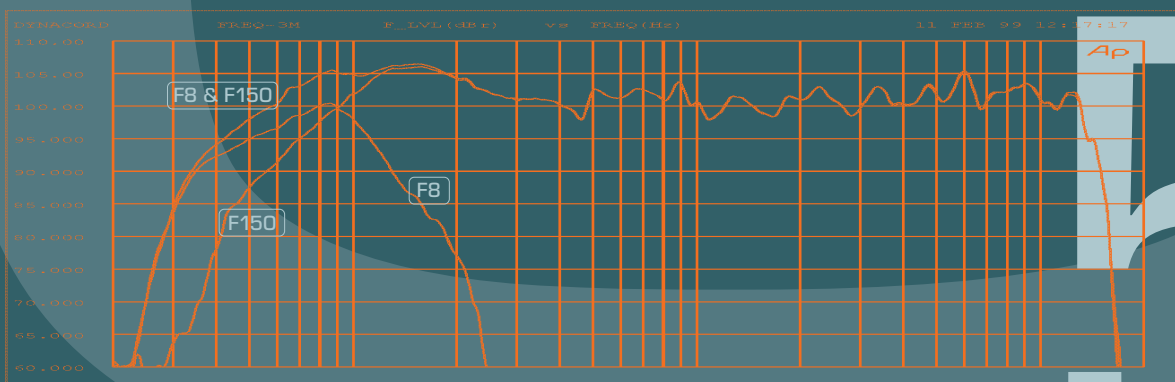
## PowerMax System 5

- 2 x F150
- 2 x F8
- PM2600
- 4 x Speakon system cable 15m
- 2 x loudspeaker stand poles

**THE** PowerMax 5 system - the direct successor of the legendary P5 Systems - consists of two 15" 2-way cabinets F150, two 18" sub woofers F8, one system power amplifier PM2600, four system cables and two loud-speaker stand poles. So, this compact, active 2-way system is ready for operation. The system power amplifier includes the PowerMax controller and provides 2 x 700 W in the bass and 2 x 600 W in the Mid/Hi range. The system cabling ensures quick and easy installation and highest operational reliability. It is possible to operate two Mid/Hi cabinets and two sub woofers per stereo side on a single PM2600.

3 year warranty.

PowerMax 5 system: F8 & F150 on a PM2600



PowerMax System

# PowerMax3 System

- 2 x F120 12" Mid/Hi cabinet
- 2 x F5 15" sub woofer
- 1 x PM2600 system power amplifier
- 4 x PSS 415 Speakon system cable 15 m
- 2 x PCL 880 loudspeaker stand poles



# PowerMax5 System

- 2 x F150 15" Mid/Hi cabinet
- 2 x F8 18" sub woofer
- 1 x PM2600 system power amplifier
- 4 x PSS 415 Speakon system cable 15 m
- 2 x PCL 880 loudspeaker stand poles



## Technical Specifications

Type	F120	F150	F5	F8
<b>Design</b>	2-way	2-way	Subwoofer	Subwoofer
<b>Components:</b>	<b>LO</b> 1 x 12" EVM 12L Pro-Line <b>HI</b> DH 2T HT 94	1 x 15" EVM 15 L Pro-Line DH 2T HT 94	1 x 15" EV DL15X -	1 x 18" EVX 180A -
<b>Nominal power rating RMS</b>	300 W	400 W	400 W	500 W
<b>Program power capacity</b>	600 W	800 W	800 W	1000 W
<b>Frequency response (-10 dB)</b>	75 Hz-18 kHz	70 Hz-18 kHz	48 Hz-280 Hz	40 Hz - 300 Hz
<b>Nominal SPL (1W/ 1m)</b>	100 dB	102 dB	100 dB	100 dB
<b>Max. SPL *</b>	128 dB	131 dB	129 dB	130 dB
<b>Impedance:</b>	8 Ω	8 Ω	8 Ω	8 Ω
<b>Crossover frequencies:</b>	1.6 kHz	1.6 kHz	160 Hz	160 Hz
<b>Dimensions:</b>				
<b>Width:</b>	436 mm	522 mm	436 mm	522 mm
<b>Height:</b>	629 mm	755 mm	617 mm	737 mm
<b>Depth:</b>	339 mm	395 mm	674 mm	674 mm
<b>Weight:</b>	21.5 kg	26.5 kg	30.5 kg	38.0 kg

\* calculated with program power

### PM2600

	HI-Channels		LO-Channels	
<b>Load Impedance</b>	8Ω	4Ω	8Ω	4Ω
<b>Maximum Midband Output Power, THD = 1%, 1kHz, 60Hz</b>	380W	700W	380W	700W
<b>Rated Output Power THD &lt; 0.1%</b>	300W	600W	350W	700W
<b>Maximum Single Channel Output Power</b>	400W	750W	400W	750W
<b>Dynamic-Headroom, IHF-A</b>				
<b>Maximum RMS Voltage Swing, THD = 1%</b>	58.7V		58.7V	
<b>Crossover Type</b>	PowerMax12*, Stereo active 2-way			
<b>Crossover Frequency</b>	90 Hz			
<b>Lo-Cut</b>	12dB/octave, 25Hz at -3dB ref. 1kHz			
<b>Frequency Response -3dB, ref. 1kHz, Lo-Cut</b>	25Hz ... 45kHz			
<b>Minimum Load Impedance</b>	2.5 Ω			
<b>Input Sensitivity at rated output power @ 4Ω</b>	0dBu (775mV)			
<b>Maximum Input Level</b>	+21dBu (8.7V)			
<b>THD at rated output power, MBW =80kHz</b>	< 0.05%			
<b>Crosstalk</b>	< -60dB			
<b>Slew Rate</b>	30V/μs			
<b>Power Bandwidth THD = 1%, ref. 1kHz, half power @ 4Ω</b>	10Hz ... 50kHz			
<b>Input Impedance 20Hz ... 20kHz, balanced</b>	20Ω			
<b>Damping Factor</b>	> 300			
<b>Signal-to-Noise Ratio, A-weighted</b>	> 100dB			
<b>Power Requirements</b>	230V, 50Hz ... 60Hz			
<b>Power Consumption at 1/8 maximum output power @ 4Ω</b>	1800W			
<b>Protection</b>	Audio limiter (APC), TBC, High temperature, DC, HF, Back-EMF, Peak current limiter, Inrush current limiter, Turn-on delay			
<b>Cooling</b>	Front-to-rear, 4-stage-fans			
<b>Safety Class</b>	I			
<b>Dimensions (W x H x D), mm</b>	483 x 177 x 426			
<b>Weight</b>	30kg			

\*Patent pending: Amplifier at rated conditions, all channels driven, 8Ω loads, HI-Channel rated at 1kHz, LO-Channel rated at 60Hz unless otherwise specified.  
Note: 0dBu = 0.775V

EVI Audio GmbH · Hirschberger Ring 45 · D-94315 Straubing  
Tel: +49 (0) 94 21 / 706-0 · Fax: +49 (0) 94 21 / 706-265 · www.dynacord.de



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