



# MX

NexD™  
SWITCHING TECHNOLOGY



IDEAL FOR:





# MX-Series: Compact Marine Amplifiers



**MX500/4**



Specifically engineered for marine and powersports applications, MX amplifiers employ our highly-efficient NexD™ Class D technology to produce lots of clean power, without straining charging systems, and without taking up a lot of space.

Housed in tiny, cast alloy chassis, MX amps are corrosion resistant and boast an IPX6 water-resistance rating, making them ideal for almost any marine application, even those where moisture cannot be completely avoided.\*

When powering our marine loudspeakers, the 4-channel MX280/4 delivers a clean 50W x 4 while the MX500/4 produces an even stronger 70W x 4 into 4 ohms. Both are fully bridgeable and can also be used as 3-channel amplifiers (stereo speakers + subwoofer), or as a very powerful 2-channel

amplifier, with up to 250 watts of power per channel. The latter is a great solution for powering large tower speaker systems.

The monoblock MX amps are a great choice for powering JL Audio marine subwoofers. The MX300/1 generates 160W into 4 ohms, which is a great matchup with the M10IB3. Its big brother, the MX500/1, produces a whopping 300W of rock-solid power into 4 ohms which is perfect for the M10IB5 and M10W5. Both mono amps are packed with useful features aimed at creating awesome bass performance in your boat.

All MX models include flexible crossover filters and accept a wide range of input signals.

No matter where you like to play, MX amplifiers are ready to power your soundtrack for maximum thrills!



**MX280/4**

## MX Features and Specifications

### Ultra-Compact Footprint / Highly Versatile

- **MX280/4 & MX300/1:**  
1.77 in. x 8.66 in. x 3.09 in. (45 mm x 220 mm x 78.5 mm)
- **MX500/4 & MX500/1**  
1.77 in. x 9.33 in. x 4.50 in. (45 mm x 237 mm x 114.5 mm)

### MX-Series Models

#### Four-Channel Amplifiers:

**MX280/4:** Stereo: 50 Watts x 4 @ 4Ω / 70 Watts x 4 @ 2 ohms  
Bridged: 140 Watts x 2 @ 4 ohms

**MX500/4:** 70 Watts x 4 @ 4Ω / 125 Watts x 4 @ 2 ohms  
Bridged: 250 Watts x 2 @ 4 ohms

- Full-Range, NexD™ switching technology
- Adjustable High-Pass / Low-Pass Filter (35-300 Hz, 12 dB/octave, defeatable)
- 2CH/3CH/4CH input switch

#### Monoblock Amplifiers:

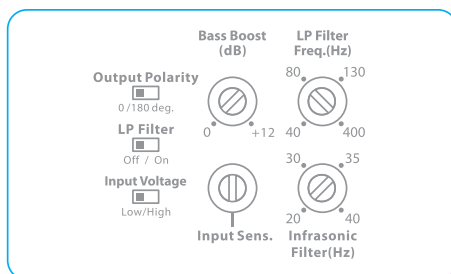
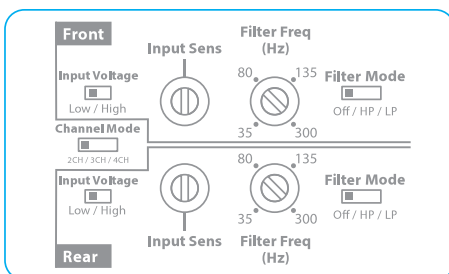
**MX300/1:** 160 Watts x 1 @ 4Ω / 300 Watts x 1 @ 2 ohms  
**MX500/1:** 300 Watts x 1 @ 4Ω / 500 Watts x 1 @ 2 ohms

- Wide-Range, NexD™ switching technology
- Adjustable Low-Pass Filter (40-400 Hz, 24 dB/octave, defeatable)
- Output polarity switch
- Adjustable infrasonic filter (20-40 Hz)
- Variable bass boost (0 to +12dB at 43Hz)
- Port for M-RBC-1 sub level control (sold separately)

Power ratings for M amplifiers are based on the "industry standard" rating method (14.4V supply voltage w/less than 1% THD+N, all channels driven, RMS method).



All controls are protected behind a watertight cover.



### Water-Resistant Remote Level Control (M-RBC-1)

With the addition of the optional M-RBC-1 (sold separately), you can remotely control the level of a subwoofer connected to monoblock models.

\*IPX6: Product is protected against streams of water and heavy moisture. The product is not designed or rated to be submersible. Product images on this page are shown with wiring removed. Actual product has non-removable wiring.

Model	Description	Continuous Power (RMS Method)	THD+N at Rated Power	S/N Ratio	Frequency Response	Damping Factor	Dimensions H x W x D
<b>MHD Amplifiers</b>							
MHD600/4 *	Class D, 4-Channel Full-Range Marine Amplifier	150W x 4 @ 1.5 - 4 ohms Bridged: 300W x 2 @ 3 - 8 ohms (Ratings at 11V-14.5V supply voltage)	<0.03%	>110 dBA referred to rated power	6 Hz - 30 kHz (+0, -1dB)	>300 @ 4 ohm per ch. / 50 Hz >150 @ 2 ohm per ch. / 50 Hz	1.93 in. x 10.74 in. x 8.29 in. 49 mm x 273 mm x 211 mm
MHD750/1	Class D, Monoblock Wide-Range Marine Amplifier	750W x 1 @ 1.5 - 4 ohms (Rating at 11V-14.5V supply voltage)	<0.03%	>110 dBA referred to rated power	6 Hz - 8 kHz (+0, -1dB)	>300 @ 4 ohm / 50 Hz >150 @ 2 ohm / 50 Hz	1.93 in. x 10.74 in. x 8.29 in. 49 mm x 273 mm x 211 mm
MHD900/5 *	Class D, 5-Channel Marine System Amplifier	<b>Five-Channel Mode:</b> 100W x 4 + 500W x 1 @ 4 ohms per ch. 75W x 4 + 500W x 1 @ 2 ohms per ch. <b>Three-Channel Mode:</b> 150W x 2 + 500W x 1 @ 4 ohms per ch. (Ratings at 11V-14.5V supply voltage)	<0.03%	>110 dBA referred to rated power	6 Hz - 30 kHz (+0, -1dB)	Subwoofer Channel: >500 @ 4 ohm / 50 Hz >250 @ 2 ohm / 50 Hz	1.93 in. x 10.74 in. x 8.29 in. 49 mm x 273 mm x 211 mm
<b>M-Series Amplifiers</b>							
M600/1	Class D, Monoblock Marine Subwoofer Amplifier	400W RMS x 1 @ 4 ohms 600W RMS x 1 @ 2 ohms (Ratings at 14.4V supply voltage)	1%	>87 dB referred to rated power	7 Hz - 500 Hz (+0, -1dB)	>1000 @ 4 ohms / 50 Hz >500 @ 2 ohms / 50 Hz	2.05 in. x 8.52 in. x 7.09 in. 52 mm x 217 mm x 180 mm
M1000/1v2	Class D, Monoblock Marine Subwoofer Amplifier	600W RMS x 1 @ 4 ohms 1000W RMS x 1 @ 2 ohms (Ratings at 14.4V supply voltage)	<1%	>53 dB referred to rated power	7 Hz - 500 Hz (+0, -1dB)	>1000 @ 4 ohms / 50 Hz >500 @ 2 ohms / 50 Hz	2.05 in. x 14.73 in. x 7.09 in. 52 mm x 374 mm x 180 mm
M200/2	Class D, Full-Range 2-Channel Marine Amplifier	75W RMS x 2 @ 4 ohms 100W RMS x 2 @ 2 ohms Bridged: 200W RMS x 1 @ 4 ohms (Ratings at 14.4V supply voltage)	<1%	>104 dB referred to rated power	12 Hz - 22 kHz (+0, -1dB)	>150 @ 4 ohms per ch. / 50 Hz >75 @ 2 ohms per ch. / 50 Hz	2.05 in. x 6.85 in. x 7.09 in. 52 mm x 174 mm x 180 mm
M400/4 *	Class D, Full-Range 4-Channel Marine Amplifier	75W RMS x 4 @ 4 ohms 100W RMS x 4 @ 2 ohms Bridged: 150W RMS x 2 @ 8 ohms Bridged: 200W RMS x 2 @ 4 ohms (Ratings at 14.4V supply voltage)	<1%	>104 dB referred to rated power	12 Hz - 22 kHz (+0, -1dB)	>150 @ 4 ohms per ch. / 50 Hz >75 @ 2 ohms per ch. / 50 Hz	2.05 in. x 8.52 in. x 7.09 in. 52 mm x 217 mm x 180 mm
M600/6 *	Class D, Full-Range 6-Channel Marine Amplifier	75W RMS x 6 @ 4 ohms 100W RMS x 6 @ 2 ohms Bridged: 150W RMS x 3 @ 8 ohms Bridged: 200W RMS x 3 @ 4 ohms (Ratings at 14.4V supply voltage)	<1%	>104 dB referred to rated power	12 Hz - 22 kHz (+0, -1dB)	>150 @ 4 ohms per ch. / 50 Hz >75 @ 2 ohm per ch. / 50 Hz	2.05 in. x 10.23 in. x 7.09 in. 52 mm x 260 mm x 180 mm
M800/8v2 *	Class D, Full-Range 8-Channel Marine Amplifier	75W RMS x 8 @ 4 ohms 100W RMS x 8 @ 2 ohms Bridged: 150W RMS x 4 @ 8 ohms Bridged: 200W RMS x 4 @ 4 ohms (Ratings at 14.4V supply voltage)	<1%	>104 dBA referred to rated power	12 Hz - 22 kHz (+0, -1dB)	>150 @ 4 ohms per ch. / 50 Hz >75 @ 2 ohms per ch. / 50 Hz	2.05 in. x 14.73 in. x 7.09 in. 52 mm x 374 mm x 180 mm
M500/3	Class D, Full-Range 3-Channel Marine Amplifier	75W RMS x 2 + 180W RMS x 1 @ 4 ohms per ch. 100W RMS x 2 + 300W RMS x 1 @ 2 ohms per ch. (Ratings at 14.4V supply voltage)	<1%	>104 dBA referred to rated power (main channels); >87 dBA referred to rated power (sub channel)	Main Channels: 12 Hz - 22 kHz; Sub Channel: 7 - 500 Hz (+0, -1dB)	Subwoofer Channel: >120 @ 4 ohm / 50 Hz >60 @ 2 ohm / 50 Hz	2.05 in. x 8.52 in. x 7.09 in. 52 mm x 217 mm x 180 mm
M700/5	Class D, Full-Range 5-Channel Marine Amplifier with 2-Way / 3-Way Crossover	75W RMS x 4 + 180W RMS x 1 @ 4 ohms per ch. 100W RMS x 4 + 300W RMS x 1 @ 2 ohms per ch. (Ratings at 14.4V supply voltage)	<1%	>104 dB referred to rated power	12 Hz - 22 kHz (+0, -1dB)	>150 @ 4 ohms per ch. / 50 Hz >75 @ 2 ohms per ch. / 50 Hz	2.05 in. x 10.23 in. x 7.09 in. 52 mm x 260 mm x 180 mm
M1000/5v2	Class D, Full-Range 5-Channel Marine Amplifier with 2-Way / 3-Way Crossover	<b>Main Channels, Stereo, all ch. driven:</b> 75W x 4 @ 4 ohms, 100W x 4 @ 2 ohms <b>Main Channels, Bridged, all ch. driven:</b> 150W x 2 @ 8 ohms, 200W x 2 @ 4 ohms <b>Subwoofer Ch., Mono, all ch. driven:</b> 400W x 1 @ 4 ohms, 500W x 1 @ 3 ohms, 600W x 1 @ 2 ohms (Ratings at 14.4V supply voltage)	<1%	>104 dBA referred to rated power (main channels); >100 dBA referred to rated power (sub channel)	Main Channels: 12 Hz - 22 kHz Sub Channel: 10 Hz - 1 kHz (+0, -1dB)	Subwoofer Channel: >150 @ 4 ohm / 50 Hz >75 @ 2 ohm / 50 Hz	2.05 in. x 14.73 in. x 7.09 in. 52 mm x 374 mm x 180 mm
<b>MX-Series Amplifiers</b>							
MX300/1	Monoblock Class D Wide-Range Amplifier	160W RMS x 1 @ 4 ohms 300W RMS x 1 @ 2 ohms (Ratings at 14.4V supply voltage)	<1%	>85 dB referred to rated power	20 Hz - 12 kHz (+0, -1dB)	>150 @ 4 ohms / 50 Hz >75 @ 2 ohms / 50 Hz	1.77 in. x 8.66 in. x 3.09 in. 45 mm x 220 mm x 78.5 mm
MX500/1	Monoblock Class D Wide-Range Amplifier	300W RMS x 1 @ 4 ohms 500W RMS x 1 @ 2 ohms (Ratings at 14.4V supply voltage)	<1%	>97 dB referred to rated power	20 Hz - 12 kHz (+0, -1dB)	>115 @ 4 ohms / 50 Hz >54 @ 2 ohms / 50 Hz	1.77 in. x 9.33 in. x 4.50 in. 45 mm x 237 mm x 114.5 mm
MX280/4	4-Channel Class D Full-Range Amplifier	50W RMS x 4 @ 4 ohms 70W RMS x 4 @ 2 ohms Bridged: 140W RMS x 2 @ 4 ohms (Ratings at 14.4V supply voltage)	<1%	>89.5 dB referred to rated power	20 Hz - 20 kHz (+0, -1dB)	>60 @ 4 ohms per ch. / 50 Hz >75 @ 2 ohms 30 ch. / 50 Hz	1.77 in. x 8.66 in. x 3.09 in. 45 mm x 220 mm x 78.5 mm
MX500/4	4-Channel Class D Full-Range Amplifier	70W RMS x 4 @ 4 ohms 125W RMS x 4 @ 2 ohms Bridged: 250W RMS x 2 @ 4 ohms (Ratings at 14.4V supply voltage)	<1%	>88 dB referred to rated power	20 Hz - 20 kHz (+0, -1dB)	>92 @ 4 ohms per ch. / 50 Hz >43 @ 2 ohms per ch. / 50 Hz	1.77 in. x 9.33 in. x 4.50 in. 45 mm x 237 mm x 114.5 mm

\* 24V Versions Also Available: MHD600/4-24V, MHD900/5-24V, M400/4-24V, M600/6-24V and M800/8-24V