



## M-Series: Marine Amplifiers

Prepare to be stunned by the audio performance of these amazingly compact marine amplifiers, and start thinking about the ease with which they will install into your boat!

Behind it all is JL Audio's exclusive NexD™ switching technology, achieving total amplifier efficiencies that exceed 80%. This efficiency advantage results in much less heat, reducing heat-sink size requirements and making M-Series amplifiers ideal for space-conscious installations. Their reduced current draw also makes them much kinder to your boat's electrical system than conventional amplifiers of similar power.

M-Series amplifiers also deploy our Advanced Rollback Protection™ to completely eliminate annoying thermal shut-down events.

Beneath every M-Series amplifier's gasketed control cover, you will find studio-grade signal processing with fully-variable crossover filters. Also included are our noise-killing, differential inputs with remote level control capabilities via the HD-RLC remote level control (optional).

Some might just see a small amplifier... But, for those who appreciate great audio, M-Series amplifiers reveal something huge.

**NexD™**  
SWITCHING TECHNOLOGY



### Incredibly compact & powerful.

Advanced NexD™ switching technology produces huge, clean power in about half the space of conventional amplifiers!



All controls are placed on the top of the amplifier beneath a gasketed, aluminum access panel.

### M-Series Features

#### Compact Footprint / Highly Versatile

- M200/2: 6.85 x 7.09 x 2.05 in. (174 x 180 x 52 mm), will fit almost anywhere
- M400/4, M500/3, M600/1: 8.52 x 7.09 x 2.05 in. (217 x 180 x 52 mm), approximately the same size as a hard cover book!
- M600/6 & M700/5: 10.23 x 7.09 x 2.05 in. (260 x 180 x 52 mm). 65% smaller than our previous generation 6-channel!
- M800/8v2, M1000/1v2 & M1000/5v2: 14.73 x 7.09 x 2.05 in. (374 x 180 x 52 mm).

#### Studio-Grade Signal Processing

- Monoblock models and the subwoofer channels of the system amplifiers feature fully-variable low-pass filters with switchable slope: 12dB or 24dB/octave. (M600/1, M500/3, M700/5, M1000/1v2 and M1000/5v2)
- Full-range, multi-channel models feature fully-variable, 12dB/octave filters, switchable from high-pass to low-pass. (M200/2, M400/4, M600/6 and M800/8v2)
- System amplifiers feature 12dB/octave high-pass filters on main channels. (M500/3, M700/5 & M1000/5v2)
- M700/5 and M1000/5v2 also features true 3-way crossover functionality (High-Pass, Bandpass, Low-Pass).
- Add Remote Level Control functionality to any model with the HD-RLC (sold separately).

#### Differential Inputs

- NO NOISE! Outstanding noise rejection prevents alternator whine and other noises.

#### Advanced Rollback Protection

- Amplifier will never shut down due to thermal overload. EVER.

### M-Series Models

#### Monoblock Subwoofer Amplifiers

- M600/1: 1 x 400W @ 4 ohms; 1 x 600W @ 2 ohms
- M1000/1: 1 x 600W @ 4 ohms; 1 x 1000W @ 2 ohms

#### Full-Range Multi-Channel Amplifiers

- M200/2: 2 x 75W @ 4 ohms; 2 x 100W @ 2 ohms
- M400/4: 4 x 75W @ 4 ohms; 4 x 100W @ 2 ohms
- M600/6: 6 x 75W @ 4 ohms; 6 x 100W @ 2 ohms
- M800/8v2: 8 x 75W @ 4 ohms; 8 x 100W @ 2 ohms

#### System Amplifiers

- M500/3: 2 x 75W + 180W @ 4 ohms; 2 x 100W + 300W @ 2 ohms
- M700/5: 4 x 75W + 180W @ 4 ohms; 4 x 100W + 300W @ 2 ohms
- M1000/5v2: 4 x 75W + 400W @ 4 ohms; 4 x 100W + 600W @ 2 ohms

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).

(M400/4, M600/6 and M800/8 models also available in 24V version.)



#### Remote Level Control (HD-RLC)

With the addition of an HD-RLC to any of our marine amplifiers, you can control the overall level of the subwoofer channel or the whole amplifier, depending on the model.



### M System Amplifiers

Our marine system amplifiers power your whole system and take up less space than the equivalent subwoofer amplifier / satellite amplifier combination. Shown here is the M1000/5v2 sitting on top of the M600/1v2 + M400/4v2 combo.

We also offer a 700W, five channel (M700/5) and a 500W, 3channel System Amplifier (M500/3)

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