

MA Modular Amplifiers (5 Models)

KEY FEATURES

- Configurable Amplifier Channel Powers: 200W, 450W and 1000W
 - Balanced Audio Inputs with Looping Outputs
 - Up to 4 Channels and 4000W* in 2U Chassis
 - 5.1 Bi-Amp System with Dual Subs in 6U Total Rack Space
 - 7.1 Bi-Amp System with Dual Subs in 8U Total Rack Space
- * 230V Operation recommended



DESCRIPTION

Providing high efficiency amplification, the MA (Modular Amplifier) series of products introduces operational and performance refinements in a highly adaptable design. Each MA modular amplifier employs a common "digital mainframe" to which power modules of 200, 450, or 1000 watts can be mounted. Flexible by design, each mainframe is populated with either two or four channels of amplification based on the system's needs and specific loudspeaker or subwoofer application. By allowing the mix of modules, the MA modular amplifier provides efficient use of power, supplying the appropriate wattage level needed for each specific application (i.e. 1000 watt modules may be used to drive subwoofers, while 450 watt modules may be mixed with 200 watt units to bi-amplify the low-frequency and higher efficiency high-frequency drivers respectively).

When combined with PRO's ALC-3316, PLP-8250, or PLP-8800 loudspeaker controller or processors, installers can use the MA modular amplifiers to quickly and easily power, apply high resolution DSP filters, and calibrate any PRO sound system. When driven by the MA, the output of each loudspeaker precisely mimics the input signal of its assigned channel, rendering performance tolerances previously only attainable at the pre-amp and power-amp level. The resulting resolution of detail and musical accuracy set a new standard for lifelike portrayal of music and video soundtracks alike.

For greater flexibility, looping outputs allow multiple MA chassis to be connected and share input signals. This is especially useful for instal-

lations employing multiple side channel loudspeakers, or where sophisticated multi-subwoofer configurations are used to address room modes.

Built on proven Class-D technology from ICEPower, each MA modular amplifier operates efficiently, providing generous power while producing little heat. A balanced design, all connections are made via transformer isolated (optional) XLR inputs, minimizing ground-loop hum and buzz problems. In addition, each amp employs world class A-D and D-A converters with native dynamic range of 123dB!

SPECS

See next page for MA specs

MA Modular Amplifier Specifications

Specification	4400	4242	9900	9942	9999
Power Ch 1, 4 ohms	450W	450W	1000W	1000W	1000W
Power Ch 2, 4 ohms	450W	200W	1000W	1000W	1000W
Power Ch 3, 4 ohms	-	450W	-	450W	1000W
Power Ch 4, 4 ohms	-	200W	-	200W	1000W
Voltage Gain	27dB				
Power Requirements, 1/8 Power, pink noise, 120VAC, all channels driven	96W 328 Btu/hr	136W 464 Btu/hr	173W 590 Btu/hr	237W 809 Btu/hr	338W 1153 Btu/hr
Idle Power	28W 96 Btu/hr	38W 130 Btu/hr	34W 116 Btu/hr	49W 167 Btu/hr	60W 205 Btu/hr
Standby Power	14W 48 Btu/hr	26W 89Btu/hr	15W 51 Btu/hr	24W 82 Btu/hr	22W 75 Btu/hr
Input Impedance	24k Ohms				
Input Sensitivity 200W channels	1.3V				
450W channels	1.9V				
1000W channels	2.8V				
Damping Factor 200W channels	>200, 4-ohm load; >400, 8-ohm load				
450W channels	>200, 4-ohm load; >400, 8-ohm load				
1000W channels	>800, 4-ohm load; >1600, 8-ohm load				
Frequency Response*	20Hz-20kHz +/- 0.2dB* *1000W Ch 1 and 3 20Hz-3kHz +0,-3dB				
Idle Noise, flat program, A-weighting 200W channels	- 78dBV (0.00013V)				
450W channels	-77dBV (0.00014V)				
1000W channels	73dBV (0.00022V)				
Idle Noise, speaker program (typ.), A-weighting 200W channels	-81dBV (0.00009V)				
500W channels	-80 dBV (.00010V)				
1000W channels	-76 dBV (0.00016V)				
Signal to Noise 200W channels	108dB				
450W channels	109.5dB				
1000W channels	108dB				
Distortion, 1kHz, 1dB below max power output	<0.07%				
Dimensions	19.0" W x 3.5"H x 16.7" D				
Net Weight	14lbs.	14lbs.	15lbs.	17lbs.	20lbs.
Shipping Weight	19lbs.	19lbs.	20lbs.	22lbs.	25lbs.