



# MC207

## Power Amplifier

### Introducing the McIntosh MC207 Power Amplifier



### The New McIntosh MC207, design theory and customer benefits.

The MC207 is a new high powered seven channel power amp designed for use in a 7.1 home theater or 5.1 theater plus a second stereo zone. The amp is two inches taller than the MC206 and uses the inverted chassis design where the heat sinks and stainless steel chassis are of the same design as the McIntosh two channel amps. The MC207 is the same size as the stereo MC402 and weighs 83 lbs. or 116 lbs. in the shipping carton.

The main design goal of the MC207 was to build the most powerful McIntosh single chassis amp with seven channels of output. The MC207 has a US retail of \$6,000 and is a step up from the MC206 but not a replacement. The MC206 will stay in the product line for the foreseeable future.

### Unique Key features of the MC207

**Dynamic Power Manager-** The MC207 delivers full power in excess of 200 watts per channel into BOTH 4 or 8-ohm speaker loads. This new amplifier design is called Dynamic Power Manager™ or DPM™. On the rear panel of the MC207 is an impedance selector for 4 or 8 ohms. If the 8-ohm position is chosen and the speakers are 4 ohms the amp will automatically switch over to the 4-ohm position if the amplifier is driven hard. This switch adjusts both the output transistor rail voltages as well as bias level to maintain ultra low distortion.

When using the MC207 the owner will not suffer a power loss if 8-ohm speakers are used unlike other lesser designs. DPM™ allows the MC207 to be optimized for whatever speakers are used.

**Power:** The MC207 uses a new generation of Motorola output transistor. This transistor is 30% smaller than the normal version yet is rated at 200 watts per device as opposed to the normal 150





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watts. This size reduction allows 56 of these high-powered output devices to be packaged on the five large 9" tall heat-sink assemblies. The five heat sink assemblies contain 2625 square inches of area. The three front channels, numbered 1, 4, and 7 have two extra transistors per channel for ultimate control of the front speakers.

The MC207 is conservatively rated at 200 watts per channel. Please see attached actual power matrix chart for typical continuous power into various loads and channels.

**More Power:** The MC207 features a very large (26 lb.) toroidal power transformer and huge 67,000 uf power supply capacitors. This over size power supply allows effortless power for all seven channels. The MC207 uses a 20-amp circuit breaker mounted on the rear panel and a DEDICATED 20 amp line from the customer's AC fuse box is strongly recommended for maximum power output. Many multi channel amps claim high power where the MC207 is built to actually deliver it!

**Connection Options:** The MC207 has three different input connection choices. A 'DB-25' cable may be used from the MX134 or MX135. Seven normal RCA jacks may also be used. When using the MX135, which had balanced outputs, seven XLR balanced cables, one per channel, may be used.

The MC207 has power control for all seven channels on the 'ZA' (Zone-A) 1/8" jack or just the two 5 and 6 channel 'ZB' (Zone-B) 1/8" jack. This allows the MC207 to function as a five-channel theater amp PLUS a two channel 'B' zone amp. When Zone B is activated by a remote zone keypad or McIntosh Control Center, channels 5 and 6 will be activated on the MC207. Five way binding posts are supplied for speaker connections.

**Appearance:** The MC207 has the traditional McIntosh 9" tall glass faceplate with three wattmeters for front channel power indication. Each meter has a Power Guard indicator above it and a separate cluster of four Power Guard indicators is located in the center of the panel. The meters and front panel are illuminated with Fiber Optic Light Diffusers and Light Emitting Diodes (LED) for a beautiful, lifetime appearance. The meter illumination may be switched off using the front panel control.

The chassis is mirror polished Stainless Steel as used on the MC402 and other amps. The power transformer and filter capacitors are housed in traditional McIntosh drawn aluminum cans with a durable powder coat finish. The five heat sinks are fully exposed for maximum ventilation. From any angle the MC207 is the most attractive multi-channel McIntosh amp yet that will reward with years of ownership pride.

All of the traditional McIntosh design values such as Power Guard, Sentry Monitor with thermal protection are used in the MC207. The MC207 may be ordered now and will ship during the last week of July.



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### MC207 OUTPUT POWER (0.005% THD)

FREQ.	MODE	CHANNELS LOADED				
		(2) 1,7	(3) 1,4,7	(5) 1,2,3,4,7	(B Zone) 5,6	ALL
20Hz	4 Ohm Vout (vrms)	35.10	31.00	30.07	33.10	28.40
	4 Ohm Power (W)	308.00	240.25	226.05	273.90	201.64
2kHz	4 Ohm Vout (vrms)	36.30	33.10	31.50	34.20	29.78
	4 Ohm Power (W)	329.42	273.90	248.06	292.41	221.71
20kHz	4 Ohm Vout (vrms)	34.20	33.00	31.17	33.40	29.50
	4 Ohm Power (W)	292.41	272.25	242.89	278.89	217.56
20Hz	8 Ohm Vout (vrms)	46.20	44.60	42.40	47.40	40.80
	8 Ohm Power (W)	266.81	248.65	224.72	280.85	208.08
2kHz	8 Ohm Vout (vrms)	47.00	45.30	43.20	48.40	41.30
	8 Ohm Power (W)	276.13	256.51	233.28	292.82	213.21
20kHz	8 Ohm Vout (vrms)	46.40	45.40	43.20	47.80	41.70
	8 Ohm Power (W)	269.12	257.65	233.28	285.61	217.36

### MC207 MAX OUTPUT POWER (W/PG)

FREQ.	MODE	CHANNELS LOADED				
		(2) 1,7	(3) 1,4,7	(5) 1,2,3,4,7	(B Zone) 5,6	ALL
20Hz	4 Ohm Vout (vrms)	35.7	34.2	32	36	29.9
	4 Ohm Power (W)	318.62	292.41	256.00	324.00	223.50
2kHz	4 Ohm Vout (vrms)	36.80	35.50	33.40	37.50	31.70
	4 Ohm Power (W)	338.56	315.06	278.89	351.56	251.22
20kHz	4 Ohm Vout (vrms)	36.90	35.40	33.20	36.70	31.30
	4 Ohm Power (W)	340.40	313.29	275.56	336.72	244.92
20Hz	8 Ohm Vout (vrms)	48.2	46.7	44.5	48.7	44.1
	8 Ohm Power (W)	290.41	272.61	247.53	296.46	243.10
2kHz	8 Ohm Vout (vrms)	49.10	47.90	45.80	50.00	43.80
	8 Ohm Power (W)	301.35	286.80	262.21	312.50	239.81
20kHz	8 Ohm Vout (vrms)	49.50	48.30	46.10	50.10	44.10
	8 Ohm Power (W)	306.28	291.61	265.65	313.75	243.10