

Specifications

MPA 601-70V and 100V

Audio

Voltage gain

MPA 601-70V

RCA and TRS inputs..... 222x (47 dB)

Captive screw input 57x (35 dB)

MPA 601-100V

RCA and TRS inputs..... 317x (50 dB)

Captive screw input 81x (38 dB)

CMRR..... 75 dB (typical) @ 1kHz

Bass adjustment ± 10 dB @ 100 Hz

Treble adjustment..... ± 10 dB @ 10 kHz

Audio input

Number/signal type..... 1 stereo/mono, balanced/unbalanced input
2 stereo/mono, unbalanced inputs
(The three inputs are individually buffered and mixed together. Stereo signals are actively summed into a mono signal.)

Connectors..... (1) 3.5 mm captive screw connector, 5 pole (main input)
(1) 3.5 mm mini audio jack (tip, ring, sleeve)
1 pair of RCA

Impedance

RCA and TRS inputs >10k ohms unbalanced, DC coupled

Captive screw input..... >10k ohms unbalanced, 20k ohms balanced, DC coupled

Maximum level

RCA and TRS inputs +5 dBV, unbalanced, at 1% THD+N

Captive screw input..... +20 dBu, balanced, at 1% THD+N

Input sensitivity

RCA and TRS inputs -10 dBV if driven by one input
-16 dBV if both inputs are summed

Captive screw input..... +4 dBu if driven by one input
-2 dBu if both inputs are summed

Input signal detection threshold

RCA and TRS inputs -68 dBV ± 3 dB, unbalanced if driven by one input
-74 dBV ± 3 dB, unbalanced if both inputs are summed

Captive screw input..... -55 dBu ± 3 dB, balanced if driven by one input
-61 dBu ± 3 dB, unbalanced if both inputs are summed

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV = 2 dBu

Audio output

Number/signal type	
MPA 601-70V	1 single channel (mono) 70V
MPA 601-100V	1 single channel (mono) 100V
Connector	(1) 5 mm screw lock captive screw connector, 2 pole
Load impedance	
MPA 601-70V	83 ohms minimum
MPA 601-100V	166 ohms minimum
Frequency response	80 Hz to 20 kHz, +1 dB/-3 dB, 1 watt
THD + Noise	< 0.1% @ 1 kHz, 3 dB below clipping
S/N	> 90 dB, 20 Hz to 20 kHz, unweighted
Damping factor	> 100
High pass filter	80 Hz, 12 dB/octave roll off
Amplifier type	Class D
Output power	
MPA 601-70V	60 watts (rms), 70V, 1 kHz, < 1% THD
MPA 601-100V	60 watts (rms), 100V, 1 kHz, < 1% THD

Control/remote – amplifier

Control port	(2) 3.5 mm captive screw connectors, 3 pole
Pin configuration	
DC volume control (analog)	Pin 1 = +10 VDC (50 mA max), pin 2 = volume/mute control (variable voltage), pin 3 = GND
Volume control voltage range	0V (mute) to 10V (maximum volume)
Standby power control	Pin 1 = timer off, pin 2 = standby, pin 3 = GND

General

Power supply	External
	Input: 100-240 VAC, 50-60 Hz
	Output: 12 VDC, 4.2 A, 50 watts
Power consumption and thermal dissipation	
MPA 601-70V	

		115 VAC, 60Hz				230 VAC, 50Hz			
		AC Line Current	AC Power Consumed	Thermal Dissipation		AC Line Current	AC Power Consumed	Thermal Dissipation	
Condition		A	W	W	BTU/hr	A	W	W	BTU/hr
Active (1/8 power), all channels driven	70 V	0.3	14.6	7.1	24	0.2	14.8	7.3	25
Quiescent (idle)		0.1	5.0	5.0	17	0.1	5.1	5.1	17
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

NOTE: Standby is triggered after 25 minutes (±5 minutes) with no signal

MPA 601-100V

		115 VAC, 60Hz				230 VAC, 50Hz			
		AC Line Current	AC Power Consumed	Thermal Dissipation		AC Line Current	AC Power Consumed	Thermal Dissipation	
Condition		A	W	W	BTU/hr	A	W	W	BTU/hr
Active (1/8 power), all channels driven	100 V	0.3	15.1	7.6	26	0.2	15.3	7.8	27
Quiescent (idle)		0.2	5.6	5.6	19	0.2	5.7	5.7	19
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

NOTE: Standby is triggered after 25 minutes (±5 minutes) with no signal

Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, no vents
Mounting	
Rack mount.....	Yes, with optional 1U rack shelf or back of rack mounting kit
Furniture mount.....	Yes, with optional under-desk mounting kit
Pole mount.....	Yes, with optional pole mounting kit
Enclosure type	Metal
Enclosure dimensions	1.7" H x 4.3" W x 6.0" D (1U high, quarter rack wide) (4.3 cm H x 10.9 cm W x 15.2 cm D) (Depth excludes connectors)
Product weight	0.9 lbs (0.4 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	UL rated for use in plenum airspaces: meets UL 2043 for heat and smoke release, excluding the power supply; meets UL 60065 and IEC 60065 for AV equipment safety CE, c-UL, UL
EMI/EMC.....	CE, C-tick, FCC Class B, ICES Class B, VCCI, KC Mark
Environmental.....	Complies with the appropriate requirements of CEC, ENERGY STAR® (ENERGY STAR® qualified amplifier), EU code of conduct, RoHS, WEEE
Product warranty	3 years parts and labor
Everlast power supply warranty.....	7 years parts and labor

NOTE: All nominal levels are at ±10%

NOTE: Specifications are subject to change without notice

NOTE: Shipping weights and dimensions are available at www.extron.com.

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