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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