

Specifications

XPA Ultra Series 358C-70V, 358C-100V

Audio

Voltage gain	
Channels 1, 2, 3, and 4	14x (23 dB)
Channels 5, 6, 7, and 8	
XPA U 358C-70V	57x (35 dB)
XPA U 358C-100V	81x (38 dB)
CMRR.....	75 dB (typical) @ 1 kHz

Audio Input

Number/signal type	8 balanced/unbalanced
Connectors	(4) 3.5 mm captive screw connector, 5-pole
Impedance	>10k ohms balanced/unbalanced, DC coupled
Nominal level	+4 dBu, balanced
Maximum level	+20 dBu, balanced
Input sensitivity	+4 dBu
Input signal detection threshold.....	-65 dBu \pm 3 dB, balanced

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

Audio Output

Number/signal type	
XPA U 358C-70V.....	8 channels, 4 low impedance and 4 high impedance 70V
XPA U 358C-100V.....	8 channels, 4 low impedance and 4 high impedance 100V
Connectors	(4) 5 mm screw-lock captive screw connector, 4-pole

NOTE: These connectors accept wires of 22 AWG to 12 AWG.

Load impedance	
Channels 1, 2, 3, and 4	4 ohms minimum
Channels 5, 6, 7, and 8	
XPA U 358C-70V	143 ohms minimum
XPA U 358C-100V	286 ohms minimum
Amplifier type	Class D
Output power	
Channels 1, 2, 3, and 4	35 watts rms per channel, 4 ohms, 1 kHz, 0.1% THD 35 watts rms per channel, 8 ohms, 1 kHz, 0.1% THD
Channels 5, 6, 7, and 8	
XPA U 358C-70V	35 watts rms per channel, 70V, 1 kHz, 0.1% THD
XPA U 358C-100V	35 watts rms per channel, 100V, 1 kHz, 0.1% THD
Frequency response	20 Hz to 20 kHz, \pm 1 dB
THD + Noise	0.1% @ 1 kHz at 3 dB below clipping
S/N	100 dB, 20 Hz - 20 kHz, unweighted

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Damping factor

Channels 1, 2, 3, and 4	>100 @ 8 ohms
Channels 5, 6, 7, and 8	
XPA U 358C-70V	>100 @ 143 ohms
XPA U 358C-100V	>100 @ 286 ohms

High pass filter

Channels 5, 6, 7, and 8	80 Hz, 12 dB per octave rolloff, selectable via captive screw
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Control/remote — amplifier

Control port (2) 3.5 mm captive screw, 2-pole

Pin configurations

Standby power control (contact closure)	Pin 1 = GND, pin 2 = Standby
High pass filter (contact closure)	Pin 1 = GND, pin 2 = OFF

General

Power supply	Internal
Input: 100 VAC - 240 VAC, 50-60 Hz	

XPA U 358C-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	8Ω (ch 1-4) 70V (ch 5-8)	0.5	52.0	17.0	58	0.3	51.0	16.0	55
	4Ω (ch 1-4) 70V (ch 5-8)	0.5	53.0	18.0	61	0.3	51.9	16.9	58
Quiescent (idle)		0.1	9.0	9.0	31	0.2	8.7	8.7	30
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

XPA U 358C-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	8Ω (ch 1-4) 100V (ch 5-8)	0.5	52.5	17.5	60	0.5	51.5	16.5	56
	4Ω (ch 1-4) 100V (ch 5-8)	0.5	53.7	18.7	64	0.3	52.6	17.6	60
Quiescent (idle)		0.1	9.2	9.2	31	0.2	9.0	9.0	31
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

Temperature/humidity

Storage	−40 to +158 F (−40 to +70°C) / 10% to 90%, non-condensing
Operating	+32 to +122°F (0 to +50°C) / 10% to 90%, non-condensing
Cooling.....	Convection, no vents
Protection	Clip limiting, thermal, short circuit, DC output

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Indication	Limiter/Protect LED indicates the onset of clip limiting, thermal cycling, or a short circuit. Over Temp LED indicates when the amplifier exceeds the recommended operating temperature for optimal unit longevity. Power LED indicates power state, DC output protection (see XPA Ultra Series User Guide for details).
Rack mount	Yes, with included mounting brackets or optional rack shelf
Enclosure.....	Metal
Enclosure dimensions	1.7" H x 8.7" W x 10.5" D (1U high, half rack wide) 43 mm H x 220 mm W x 267 mm D
Product weight	4.2 lbs (1.9 kg)
Regulatory compliance.....	CE, CCC, CEC, CISPR 22 Class B, C-tick, c-UL, ENERGY STAR®, European Code of Conduct, FCC Class B, ICES, KC, RoHS, UL, VCCI Class B UL rated for use in plenum airspaces: meets UL 2043 and CAN/ULC_S142:16 for heat and smoke release meets UL/IEC 6238-1 for Multimedia Equipment meets UL 62368-1, IEC 62368-1, and BSEN 62368-1 for Multimedia Equipment
Product warranty	3 years parts and labor
Everlast power supply warranty.....	7 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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

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