

8002 power amplifier



description

The Pro II Series heralds a major advance in amplifier design from Crest Audio. Extreme reliability and hallmark sonic accuracy of the legendary Professional Series is maintained in the same rugged package—but at only half the weight. Such dramatic weight savings are made possible by PowerLok, a radical new power-supply technology that provides significant performance and flexibility advances over conventional designs.

PowerLok is Crest Audio's unique implementation of Power Factor Correction, which allows current to be drawn throughout the entire cycle of the AC line-frequency, providing maximum output power, while drawing significantly smaller peak currents from the AC line.

Compared with an amplifier using a conventional power-supply, PowerLok requires less peak power to produce identical output power results—and because PowerLok's current peaks are smaller, a Pro II amplifier can be serviced by a lower-rated breaker than a conventional amplifier of similar wattage.

superior sound quality

excellent low frequency and transient response
louder than conventional amplifiers
—maximum output level never dips
constant, predictable performance

consistent power output

accepts any line voltage worldwide—50 or 60Hz
accepts long power cable runs with no loss of output power
draws significantly less peak current
lighter-duty power distribution components
low line-voltage distortion
minimal supply-ripple

cost-effective

extreme reliability
reduced shipping costs—half the weight of conventional amplifiers

features

- PowerLok technology
- dramatically reduced net weight
- latest generation of high-speed, wide-bandwidth output devices
- twin-tunnel cooling with back-to-front air flow
- dual, rear-mounted, continuously-variable-speed fans
- balanced male and female xlr inputs with switch-configurable xlr polarity and sensitivity selection
- Speakon and five-way binding post output connectors
- stereo, parallel, bridged-mono: mode selector switch
- ground-lift switch
- front panel circuit-breaker switch
- recessed, stepped attenuators
- modular construction
- aluminum chassis
- five-year warranty

TourClass® protection circuits

ACL ACTIVE CLIP LIMITING prevents speaker damage by providing gentle gain reduction at the clipping threshold.

IGM INSTANTANEOUS GAIN MODULATION monitors speaker loads to detect conditions that may overstress output devices, allowing safe operation into nominal 2Ω speaker loads.

AUTORAMP gradually increases gain to the attenuator level-settings when the amplifier is turned on.

Other protection features include: SHORT CIRCUIT, DC VOLTAGE, COMPREHENSIVE THERMAL MANAGEMENT, CURRENT IN-RUSH TURN-ON/OFF TRANSIENT, AND SUB/ULTRASONIC INPUT.



power specifications

8002 1kHz, 0.01% THD+N
20Hz-20kHz, 0.1% THD+N

8Ω stereo

800w
750w

4Ω stereo

1400w
1350w

2Ω stereo

2000w
1900w

8Ω bridged

2800w
2700w

4Ω bridged

4000w
3800w

Power figures are watts per channel, both channels driven.



specifications

8002 power amplifier

	1kHz, 0.01% THD+N	20Hz–20kHz, 0.1% THD+N
stereo power 8Ω	800W	750W
	4Ω	1400W
	2Ω	2000W
bridged mono power 8Ω	2800W	2700W
	4Ω	4000W
maximum output voltage	92V rms, 130V peak each channel	

Architech's specifications for this model and other product information is available in downloadable PDF format at www.crestaudio.com

Power figures are watts per channel, both channels driven.
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Crest Audio reserves the right to make improvements in manufacturing or design which may affect specification.

frequency response 1W @ 8Ω	20Hz–20kHz, +0 / -0.3dB, -3dB@135kHz
power bandwidth rated power @ 4Ω, 1% THD+N	20Hz–20kHz, +0 / -0.23dB

THD+N	<0.05% rated power @ 4Ω, 1kHz
SMPTI IMD	<0.01% rated power @ 8Ω, 60Hz and 7kHz
damping factor	400:1 10–400Hz @ 8Ω

input CMRR	>60dB @ 1kHz
switch-configurable input options	.775V constant sensitivity, x20 or x40 constant gain
input impedance	>20kΩ balanced, >10kΩ unbalanced
hum and noise	-110dB, A-weighted below rated power
crosstalk	> -80dB @ 1kHz below rated power

class	H	
Power supply	two versions: 90–255 or 180–255 vac @ 50–60Hz factory configured PowerLok power supply with active power factor correction	
Circuit breaker rating	36A @ 120V	
Current draw 1/8 power, 4Ω	<7.7A @120V	
	1/3 power, 4Ω	<17.3A @120V
	at idle	<1.5A @120V
Peak current draw	51A	

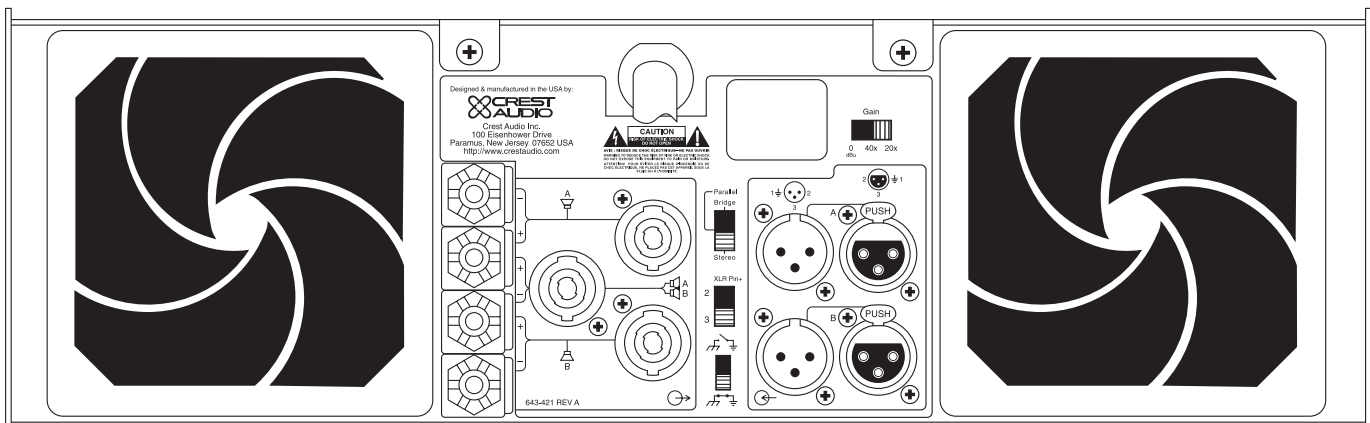
thermal emissions 1/8 Power, 4Ω	2083 BTU/Hr
	1/3 Power, 4Ω
cooling	back-to-front via two rear-mounted variable-speed DC fans

input connectors	female and male xlr pin 2+ switch-configurable for pin 3+
output connectors	Speakon connectors and five-way output binding posts
controls	front panel: two attenuators, power switch incorporating magnetic circuit breaker
	rear panel: signal ground-lift, mode select, input sensitivity, pin 2/3+ switches
LED indicators	ACL, SIGNAL, STATUS bi-color: active / protect
TourClass® protection	ACL, IGM, AUTORAMP, SHORT CIRCUIT, DC VOLTAGE, TURN-ON/-OFF TRANSIENT, CURRENT IN-RUSH, SUB/ULTRASONIC INPUT

construction	aluminum chassis double thickness in rack-ear areas
dimensions	5.25" x 19" x 18" 133 x 483 x 457mm height x width x depth
weight	gross: 47lbs 21.7kg
	net: 42lbs 19.1kg
warranty	five years USA, Canada, United Kingdom, and many other countries



rear view 8002



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