

EL50 Anniversary

3-Way Active Floor-standing Loudspeaker with All-Discrete Electronics

Overview

Elliptical curved cabinet for low diffraction

ATC 9"/234mm 'SL' bass driver

ATC 3"/75mm 'Superdome' mid-range

ATC 1"/25mm 'S-Spec' tweeter

ATC 3-channel discrete 'Amp-Pack'

Balanced instrumentation input combining high CMRR and very low noise

4th order active crossovers implemented with low-noise discrete circuitry

MOSFET class A-B power stages capable of 350W continuous total power

Power on/off trigger input and link output

DC offset and thermal amp protection

Acoustic specifications

Bass driver: SB75-234SL 8Ω

Mid driver: SM75-150S 16Ω

High Frequency Driver: SH25-76S 6Ω

Low Frequency Cut-off: 32Hz (-6dB anechoic)

High Frequency Cut-off: 25kHz (-6dB)

Matched Response: +/-0.5dB

Crossover Point: 380Hz & 3.5kHz

MaxSPL: 112dB (per pair; IEC Weighted Pink Noise, 1m, anechoic)

Sensitivity: -17.5dBu (85dBC, @1m, pink noise, per speaker; anechoic)

Electronic specifications

Balanced Input: Rear panel mounted female XLR, pin 2 +ve

Input Impedance: 20kΩ

Input CMRR: >80dB (20Hz-10kHz)

Input Sensitivity: 2.2dBu/1V or 8.2dBu/2V (switched, ref. full output)

Crossover Filters: 4th Order Linkwitz Riley

Amplifier type: Grounded Source MOSFET, class A/B, convection cooled (fan-less)

Output Power: Bass: 200W (8Ω, continuous average, 0.1%THD)

Mid: 100W (16Ω, continuous average, 0.1%THD)

HF: 50W (8Ω, continuous average, 0.1%THD)

THD+N: 0.0015% / -96dB (1kHz, 1dB below rated power, 90kHz BW)

Frequency Response: 8Hz-190kHz

Limiter: FET momentary gain reduction, all channels

Electronic amp protection: Amplifier d.c. offset and over-temperature (both indicated by rear panel LED)

Mains Input: 220-230V / 110-115V factory set. Please observe panel markings and labels!

Power Trigger Input/Link: 2 x rear panel mounted, Switchcraft L712RA

Power Consumption: *Idle* 77W / 105VA, *1/8th Power* 240W / 315VA, *Full Power* 600W / 730VA

Heat Output: *Idle* 77W / 263BTU, *1/8th Power* 184W / 628BTU, *Full Power* 250W / 853BTU

Physical specifications

See following page

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with All-Discrete Electronics

ATC reserve the right to change specifications without prior notice
Acoustic Transducer Co. is a trading name and ATC is the registered Trade Mark of Loudspeaker Technology Ltd.

Net Weight: 63kg / 139lbs

Dimensions...

EL50

