HIGH POWER / POWER AMPLIFIERS / POWER AMPLIFIERS

LUX-4120

DIGITAL LOW-IMPEDANCE POWER AMPLIFIER



D
CLASS D

- Compact multi-channel power
  Four independent channels to power several zones from a single rack unit.
- Maximum configuration flexibility
  Stereo, parallel and bridge modes to adapt the power to each application.
- Precise adjustment per channel
  Independent gain, sensitivity and HPF / LPF filters to optimise each speaker.
- Easy professional integration
  XLR and Euroblock connections, emergency input and remote mute for any project.
- Continuous reliability and protection
  Advanced limiters and protection circuits that ensure stable and safe operation.

+ Info:
https://fonestar.com/LUX-4120

ESPECIALLY RECOMMENDED IN:



Centers of Worship



Hospitality



Retail



Sports facilities



Hotels



Transport Stations

DESCRIPTION

Digital low-impedance power amplifier 4 x 120 W RMS @ 8 Ohm, 4 x 240 W RMS @ 4 Ohm, 2 x 480 W RMS @ 8 Ohm bridge. Selectable input gain (-infinite, 0 dB, +6 dB). HPF, LPF filters per channel. Mute. Emergency input. Auto standby.

TECHNICAL CHARACTERISTICS

TECHNOLOGY	4-channel digital amplifier. High efficiency class D amplifier circuit.
POWER	Stereo / parallel mode: 120 + 120 + 120 + 120 W RMS at 8 Ohm 240 + 240 + 240 + 240 W RMS at 4 Ohm Bridge mode: 480 + 480 W RMS at 8 Ohm All channels driven: 960 W RMS at 4 Ohm
FREQUENCY RESPONSE	20-20,000 Hz (-3 dB)
INPUT IMPEDANCE	Balanced 20 kOhm Unbalanced 10 kOhm
GAIN	32.04 dB
DISTORTION (THD+N)	< 0.3% (< 0.04% typical)
SIGNAL-TO-NOISE RATIO (SNR)	> 94 dB at 1 kHz
DIAPHONY	< -73 dB at 1 KHz
CMR	> 80 dB at (20 Hz - 1 kHz)
DAMPING FACTOR	> 140



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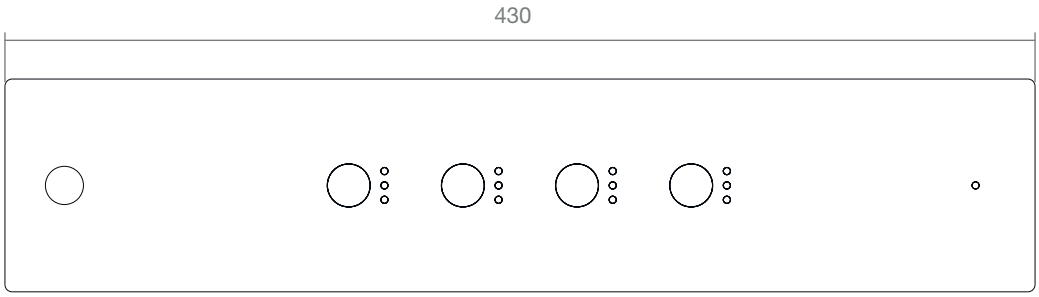
INPUTS	Number of inputs: · 4 Lo Z · 1 emergency · 1 mute by contact closure Connector types: · Lo Z: XLR and Euroblock (Pitch 5.08, cross-section up to 4 mm²) · Emergency: Euroblock (Pitch 5.08, cross-section up to 4 mm²) · Mute: Euroblock (Pitch 5.08, cross-section up to 4 mm²) Sensitivity · 775 mV to 5 V
OUTPUTS	Number of outputs: · 4 Lo Z Connector type: · Lo Z: Speaker and Euroblock (Pitch 7.62, up to 6 mm² cross-section) Output impedance: · Stereo/parallel 8 Ohm and 4 Ohm, bridge 8 Ohm
CONTROLS	Cut-off filter selector: LPF: Bessel 12 dB/oct (2nd order), HPF: Bessel 12 dB/oct (2nd order), Full Range (without filter) Cut-off frequency selector: 40 Hz / 80 Hz / 120 Hz Input gain controller per channel (0.775 to 5 V) Output gain controller per channel (0 to 5 V) Priority adjustment controller for emergency input Operating mode selector: stereo / parallel / bridge 4 / 8 Ohm selector for frequency response optimisation Auto standby: 15 min GND lift earth disconnection ON / OFF switch with LED ring
INDICATORS	Power (POWER) Standby (STANDBY) Signal (SIGNAL) Output peak (CLIP front and rear panel) Protection (PROTECT)
LIMITERS	Level/power limiter (output limiter)
PROTECTIONS	Soft start (inrush current limitation) Thermal protection Output short-circuit protection Output over-current protection Overload protection Output DC voltage protection (DC)

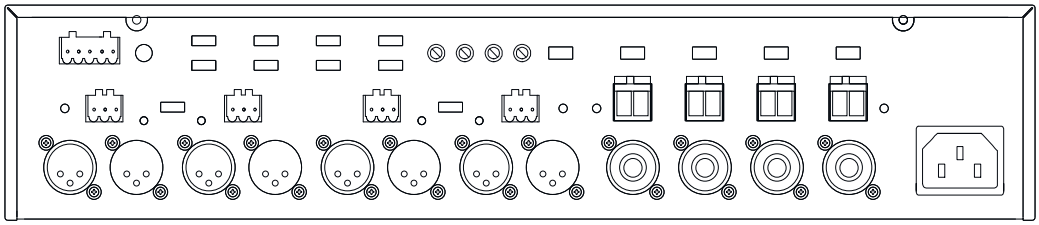


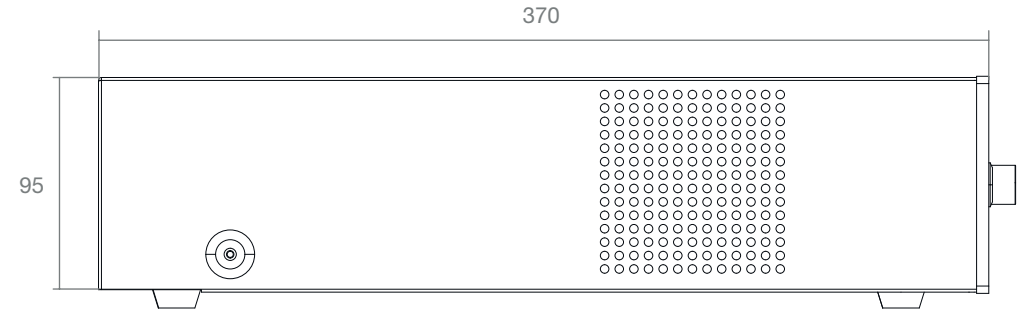
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CONSUMPTION	Idle (@ 230 V) · Power consumption: 58.75 W · Current consumption: 0.25 A · Thermal loss: 200.46 BTU/h 1/8 Power @4Ohm (@ 230 V) · Power consumption: 226.98 W · Current consumption: 0.97 A · Thermal loss: 365.23 BTU/h Standby (@ 230 V) · Power consumption: 23.4 W · Current consumption: 0.10 A · Thermal loss: 79.84 BTU/h
TEMPERATURE	Cooling: Forced-air cooling with variable speed Operating temperature: -10 ºC to 40 ºC Storage humidity: < 90% RH
POWER SUPPLY	Nominal: 230 V AC @ 50 / 60 Hz Operating: 220-240 V AC AC connector: IEC 60320-C20 (20 A max) Fuse: T8A / 250V 6 x 60 mm
DIMENSIONS	430 x 95 mm x 370 mm depth
WEIGHT	7.28 kg
INCLUDES	Brackets for 19" rack Power cable Connectors

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430




370
95

