

P R E L I M I N A R Y

PowerLight 2.4^{MB}

F E A T U R E S

The PowerLight™ 2.4^{MB} is an advanced, professional, mono-block audio amplifier featuring uncompromised audio performance. A new high frequency power supply, utilizing QSC's *PowerWave™ Switching Technology*, has been combined with the rugged audio amplification circuits of traditional QSC

amplifiers to produce an amplifier with incredible reliability, thermal capacity and audio performance. The PowerLight 2.4^{MB} is rated at 1050 watts into 8 ohms, 1700 watts into 4 ohms, and 2400 watts into 2 ohms, making it ideal for powering subwoofers and high power, passive, full-range speaker systems. A high-efficiency, 3-step output circuit reduces AC current draw and improves performance with low impedance loads. Outstanding audio performance and reliability, networkability, and light weight make this amplifier ideal for all critical sound system applications.

LOAD	FTC	EIA
	<i>20Hz-20kHz, 0.1% THD</i>	<i>1kHz, 1% THD</i>
8Ω	1000 watts	1050 watts
4Ω	1550 watts	1700 watts
2Ω		2400 watts

Ideal for powering subwoofers and high power, passive full-range speakers

2400 watts at 2 ohms
1550 watts at 4 ohms
1050 watts at 8 ohms
(*guaranteed minimum specs*)

Advanced thermal management system

Clip Limiter (user defeatable)—reduces distortion, protects loud speakers

PowerWave™ Switching Technology—for improved audio performance

Detented gain control with 2 dB steps for easy resetting

Comprehensive LED status arrays

High-efficiency, 3-step output circuit for improved thermal performance and lower AC current consumption—120V units work on standard outlets

Two variable speed fans, for quiet operation

DC, sub audio, and thermal overload protection

Patented Output Averaging™ short-circuit protection

Two Neutrik "Combo" (XLR & 1/4") connectors in parallel, and barrier balanced input

Two pair of "Touch proof" binding post output connectors in parallel

Remote AC power control

Data port for MultiSignal Processing

3 year warranty PLUS optional 3 year extended service contract



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PRELIMINARY SPECIFICATIONS

OUTPUT POWER

8 ohms, 20 Hz to 20 kHz, 0.1% THD, 1000 watts
4 ohms, 20 Hz to 20 kHz, 0.1% THD, 1550 watts
2 ohms, 1 kHz, 1.0% THD, 2400 watts

DISTORTION (SMPTE-IM): less than 0.05%

DISTORTION (typical): less than 0.01% THD
4Ω to 8Ω:
20Hz-20kHz, 10 dB below rated power
1.0 kHz and below, full rated power

FREQUENCY RESPONSE:

20 Hz to 20 kHz, ±0.15 dB
8 Hz to 100 kHz, +0/-3 dB

DAMPING FACTOR:

Greater than 500

DYNAMIC HEADROOM: 1.9 dB at 4 ohms

NOISE: 108 dB below rated output (20 Hz to 20 kHz)

SENSITIVITY: 1.11 Vrms for rated power (8 ohms)

CONTROLS:

Front: AC Switch, Gain Knob, Clip Limiter Switch
Back: Remote A.C. Power Control Terminal Strip

VOLTAGE GAIN: 80 (38 dB)

INPUT IMPEDANCE: 10K unbalanced, 20K balanced

INDICATORS:

PROT: Red LED CLIP: Red LED
STANDBY: Yellow LED LEVEL -10: Yellow LED
PWR-ON: Green LED LEVEL -20: Yellow LED
SIG-PRESENT: Green LED

CONNECTORS:

Input: Barrier strip and parallel Neutrik "Combo" XLR and 1/4" input
Speakers: Two pair of "Touch proof" binding posts
Data Port: HD15 female

COOLING: Two variable speed fans, rear-to-front air flow.

AMPLIFIER PROTECTION:

Full short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into reactive or mismatched loads.

LOAD PROTECTION:

On/off muting. DC-fault power supply shut down.

OUTPUT CIRCUIT TYPE:

Complementary linear outputs. 3-step high efficiency circuit.

DIMENSIONS:

19.0" (48.3 cm) rack mounting
3.5" (8.9 cm) tall (2 spaces)
17.9" (45.5 cm) deep (rear support ears)

WEIGHT: 18 lbs (8.2 kg) net, 24 lbs (10.6 kg) shipping

†Output Averaging™ short circuit protection (US Patent 4,321,554)
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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