

# PLX1602

A direct technological descendant of QSC's acclaimed PowerLight™ Series—the amplifiers which redefined performance and reliability for live sound professionals—the two-rack-space **PLX1602** brings the innovations of PowerWave™ switching technology to new levels of affordability.

PowerWave is much more than light weight; it's a way of providing ample current to the audio power

circuitry by charging the supply rails 230,000 times a second through an ultra-low impedance circuit, so that unlike high-powered amps with conventional supplies, the audio signal is never starved prematurely, but remains crisp and clean. It's a way of cutting wasted heat and boosting reliability. It's a way of virtually eliminating hum and reducing noise to near-inaudibility.

PLX Series amps also boast a set of useful and individually selectable features such as clip limiters; low-frequency filtering; and stereo, parallel, and bridged mono operation. The amps use both XLR and ¼" TRS input connectors, and outputs are both Neutrik Speakon™ and "touch-proof" binding posts.

LOAD	guaranteed minimum spec	
Both channels driven	1 kHz, 1% THD	
Stereo (W/Ch) 8Ω	350 watts	
	4Ω	600 watts
	2Ω	800 watts
Bridged mono 8Ω	1200 watts	
	4Ω	1600 watts

## PRELIMINARY SPECIFICATIONS (subject to change without notice)

### OUTPUT POWER (per channel)

8 ohms, 20 Hz to 20 kHz, 0.03% THD, 300 watts  
4 ohms, 20 Hz to 20 kHz, 0.05% THD, 500 watts  
2 ohms, 1 kHz, 1% THD, 800 watts

### OUTPUT POWER (bridged mono)

16 ohms, 20 Hz to 20 kHz, 0.1% THD, 600 watts  
8 ohms, 20 Hz to 20 kHz, 0.1% THD, 1100 watts  
4 ohms, 1 kHz, 1% THD, 1600 watts

### DISTORTION (SMPTE-IM): less than 0.01%

### DISTORTION (typical): less than 0.01% THD, 4Ω & 8Ω

20 Hz–20 kHz: 10 dB below rated power  
1 kHz and below: at full rated power

### FREQUENCY RESPONSE: (LF filter switched off)

20 Hz to 20 kHz, ±0.2 dB  
8 Hz to 50 kHz, +0, -3 dB

### DAMPING FACTOR: (1 kHz and below)

500 or greater

### NOISE: 107 dB below rated output (20 Hz–20 kHz)

### SENSITIVITY: 1.2 Vrms (+3.9 dBu) for rated power @ 8Ω

1.1 Vrms (+3.2 dBu) for rated power @ 4Ω

### CONTROLS:

Front: AC switch, Ch. 1 and Ch. 2 gain knobs  
Rear: DIP switch (Ch. 1: clip limiter on/off, LF filter on/off, LF filter freq select—30 or 50 Hz; Ch. 2: clip limiter on/off, LF filter on/off, LF filter freq select—30 or 50 Hz; inputs parallel or stereo; bridge mode)

### VOLTAGE GAIN: 40× (32 dB)

### INPUT IMPEDANCE: 6K unbalanced, 12K balanced

### INDICATORS:

CLIP/PROT Red LED (1 per channel)  
LEVEL -10 dB Green LED (1 per channel)  
LEVEL -20 dB Green LED (1 per channel)  
SIGNAL -35 dB Green LED (1 per channel)  
BRIDGED Yellow LED  
PARALLEL INPUTS Yellow LED  
POWER Green LED

### CONNECTORS:

Input: ¼" TRS and 3-pin XLR (1 each per channel)  
Output: Neutrik Speakon (1 per channel) and "Touch-proof" 5-way binding posts (1 pair per channel)

### COOLING:

Variable-speed fan, rear-to-front air flow through tunnel heat sink

### 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 shutdown.

### OUTPUT CIRCUITRY:

Class AB+B complementary bipolar

### POWER REQUIREMENTS:

10 A (pink noise, 1/8 rated average power at 4 ohms)

### DIMENSIONS:

19" (48.3 cm) rack mounting  
3.5" (8.9 cm) tall (2 rack spaces)  
13.25" (33.7 cm) deep (from front mounting rails)

### WEIGHT: 21 lbs (9.5 kg) net

- Ultra-high-performance, ultra-high-reliability, ultra-low-noise PowerWave™ technology made even more affordable—perfect for sound reinforcement, night clubs, DJs, musicians, equipment rentals, and installations.

- 350 watts per channel @ 8Ω  
600 watts per channel @ 4Ω  
800 watts per channel @ 2Ω

- 1200 watts @ 8Ω, bridged mono  
1600 watts @ 4Ω, bridged mono

- Detented gain controls

- DIP switch control of independent clip limiters (in or out), low frequency roll-off filters (in/out and frequency), bridging, and parallel operation

- Front panel LED indicators for signal metering, clipping, protect, parallel inputs, and bridged mono mode

- Zero inrush current at turn-on

- Class AB+B complementary bipolar output circuitry for ultra-low distortion

- Variable-speed fan cooling with back-to-front air flow

- 2 rack spaces high

- 13.25 inches (33.7 cm) deep

- Only 21 pounds (9.5 kg) net

- Integral handles

- DC, infrasonic, and thermal overload protection

- Patented Output Averaging™ short circuit protection

- XLR and ¼" TRS input connectors

- Neutrik Speakon™ and "Touch proof" binding post output connectors

- 3 year warranty PLUS optional 3 year extended service contract

**QSC**  
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