

PowerLight 2 Series

Professional Power Amplifiers

PL218 | PL224 | PL230 | PL236 | PL218A | PL224A | PL230A | PL236A

The PowerLight 2 Series is a high performance line of amplifiers designed exclusively for the touring and live sound professional. Four models range in power from 900 watts to 1850 watts per channel, all in two-rack space chassis that are only 14" deep and 21 lbs.

Each of these models is available in two versions: a base model and an "A" version. Base models are ideal for systems using external signal processing. For those looking for integrated solutions, "A" versions offer internal analog signal processing. Full DSP capabilities may also be added to any model with the addition of the DSP-3 Module.

With PowerLight® technology, PowerLight 2 amplifiers take your sound to a whole new level. Not only does it give you tighter bass and clean transparent highs, PowerLight also cuts waste heat, boosts reliability and gets rid of unwanted noise and hum. PowerLight is a revolutionary switching power supply technology that provides ample current to the audio power circuitry by charging the supply rails 230,000 times a second through an ultra-low impedance circuit. So unlike amplifiers that use conventional supplies, the audio signal is never starved prematurely and remains crisp and clean.

Through continued improvement and innovation, QSC's new PowerLight 2 offer features not found in any other professional audio amplifier.

PowerLight 2 Power Amplifiers

Model	8Ω	Watts per channel 4Ω*	2Ω**
PL218	310	525	900
PL224	440	715	1200
PL230	575	900	1500
PL236	725	1100	1850

FTC rating: 20 Hz - 20 kHz, 0.03% THD *FTC 20 Hz - 20 kHz, 0.05% THD **EIA 1 kHz, 1% THD Represents PL 2A and PL 2 Base Models

PowerLight is a registered trademark of QSC Audio Products, Inc. Speakon is a trademark of Neutrik





Features

- · PowerLight switching technology for improved audio performance
- High-efficiency Class H output circuits lower AC current consumption and cooling requirements by over 40% (PowerLight 224, 230, and 236)
- Increased airflow for improved thermal performance
- · DataPort for remote computer control or the addition of external DSP modules
- Detented gain controls with 1 dB steps for precise calibration
- Removable knobs with lock-out security plate to prevent unauthorized tampering
- User defeatable clip limiters and selectable low-frequency filter (5, 30, or 50 Hz)
- 1/4" TRS (base models only), XLR, and 3-pin detachable terminal block input connectors
- Neutrik Speakon[®] and "Touch Proof" binding post outputs
- · "Locking" IEC power cable remains secure on the road
- Personalized badging available

PowerLight 2 "A" built-in signal processing

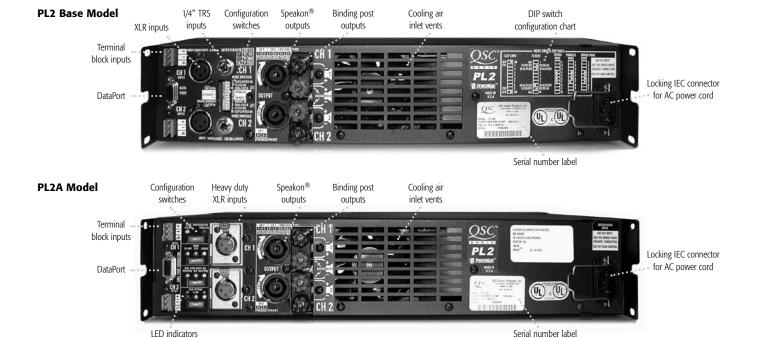
- Selectable input sensitivity/voltage gain (+4 dBu, 32 dB, or 26 dB)
- Adjustable two-way 4th order Linkwitz-Riley crossover with low frequency delay for driver time alignment
- Adjustable high frequency attenuation
- Independent output power limiters on each channel with adjustable threshold, attack and release times
- Adjustable CD horn equalization
- 3 year warranty, plus optional 3 year extended service contract

PowerLight 2 Series

PL2 Base Model Specifications

	PL218	PL224	PL230	PL236		
Stereo Mode (both channels driven)	Continuous average output power per channel					
8Ω / FTC 20 Hz - 20 kHz / 0.03% THD	310 W	440 W	575 W	725 W		
8Ω / EIA 1 kHz / 1% THD	350 W	475 W	625 W	800 W		
4Ω / FTC 20 Hz - 20 kHz / 0.05% THD	525 W	715 W	900 W	1100 W		
4Ω / EIA 1 kHz / 1% THD	600 W	825 W	1050 W	1300 W		
2Ω / EIA 1 kHz / 1% THD	900 W	1200 W	1500 W	1850 W		
Bridge Mono Mode						
16Ω / FTC 20 Hz - 20 kHz / 0.1% THD	650 W	900 W	1200 W	1500 W		
8Ω / FTC 20 Hz - 20 kHz / 0.1% THD	1100 W	1500 W	2000 W	2400 W		
4Ω / EIA 1 kHz / 1% THD	1800 W	2400 W	3000 W	3700 W		
Noise (20 Hz - 20 kHz)	-107 dB	-108 dB	-107 dB	-107 dB		
Input Sensitivity at 8Ω	1.23 Vrms	1.16 Vrms	1.17 Vrms	1.23 Vrms		
Input Sensitivity at 4Ω	1.15 Vrms	1.10 Vrms	1.07 Vrms	1.07 Vrms		
Voltage Gain	32 dB	34 dB	35 dB	36 dB		
Output Circuitry	AB	Class H, 2-tier	Class H, 2-tier	Class H, 2-tier		
Power Requirements (1/8 power pink noise at 4Ω)**	8 A*	8 A*	9 A*	10 A*		
Distortion (SMPTE-IM)	< 0.01%					
Distortion (typical)						
10 dB below rated power; 20 Hz - 20 kHz	< 0.015% THD					
Full rated power: 5 kHz and below	< 0.01% THD					
Frequency Response	20 Hz – 20 kHz, ±0.2 dB /	8 Hz – 100 kHz, +0, -3 dB				
Damping Factor	> 500					
Input Impedance	6k ohm unbalanced / 12k ohm balanced					
Input Clipping	10 Vrms (+22 dBu)					
Cooling (each channel)	Variable speed fan, rear-to-front air flow					
Connectors (each channel)	Input: 1/4" TRS, 3-pin XLR and 3-pin detachable terminal blocks (1 each per channel)					
	Output: Neutrik Speakon® and touch proof binding post					
Controls	Front: AC switch / Ch.1 and Ch.2 gain knobs					
	Rear: DIP switch for Ch. 1 and Ch. 2: clip limiter on/off, LF filter on/off, LF filter frequency select 30 or 50 Hz; inputs parallel or					
	stereo; bridge mode					
Indicators	Parallel Inputs: Orange LED / Bridged: Yellow LED / Power-On: Green LED /					
	Clip/Prot: Red LED / Level	-10 dB: Amber LED / Level -20 dB: Gr	reen LED / Signal -35 dB: Green LED (1	per channel)		
Amplifier Protection	Full short circuit, open circuit, thermal, ultrasonic, RF protection. Stable into reactive or mismatched loads					
Load Protection	On/off muting / DC-fault power supply shutdown					
Dimensions (HWD)	3.5" (8.9 cm) 2 rack spaces	s x 19" (48.3 cm) rack mounting x 14'	' (35.6 cm) from front mounting rails			
Weight - Net / Shipping	21 lbs (9.5 kg) / 27 lbs (12	.3 kg)				

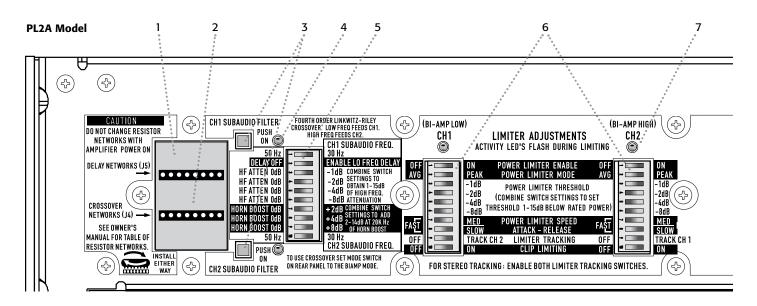
^{*}at 120 VAC, both channels driven; multiply current by 0.5 for 230V units ** Note: 1/8 power is representative of current draw with typical music program material with occasional dipping



PL2A Model Specifications

$8\Omega / \text{FTC 20 Hz} - 20 \text{ kHz} / 0.05\% \text{ THD} \\ 8\Omega / \text{EIA 1 kHz} / 1\% \text{ THD} \\ 350 \text{ W} \\ 4\Omega / \text{FTC 20 Hz} - 20 \text{ kHz} / 0.07\% \text{ THD} \\ 525 \text{ W} \\ 4\Omega / \text{EIA 1 kHz} / 1\% \text{ THD} \\ 2\Omega / \text{EIA 1 kHz} / 1\% \text{ THD} \\ 900 \text{ W} \\ \\ \text{Bridge Mono Mode} \\ 8\Omega / \text{FTC 20 Hz} - 20 \text{ kHz} / 0.1\% \text{ THD} \\ 4\Omega / \text{EIA 1 kHz} / 1\% \text{ THD} \\ 1100 \text{ W} \\ 4\Omega / \text{EIA 1 kHz} / 1\% \text{ THD} \\ 1800 \text{ W} \\ \text{Noise (20 Hz} - 20 \text{ kHz}) \\ \text{Input Sensitivity at } 8\Omega \\ 2.57 \text{ Vrms (26 dB)} \\ 1.28 \text{ Vrms (44 dBu)} \\ 1.28 \text{ Vrms (32 dB)} \\ \text{Input Sensitivity at } 4\Omega \\ 2.37 \text{ Vrms (26 dB)} \\ 1.18 \text{ Vrms (44 dBu)} \\ 1.18 \text{ Vrms (32 dB)} \\ \text{Voltage Gain} \\ \text{Output Circuitry} \\ \text{AB} \\ \text{AB} \\ \\$	ced ow 5-pin detachable terminal bl	575 W 625 W 900 W 1050 W 1500 W 2000 W 3000 W -103 dB 3.84 Vrms (26 dB) 1.22 Vrms (+4 dBu) 1.93 Vrms (32 dB) 3.41 Vrms (26 dB) 1.08 Vrms (+4 dBu) 1.71 Vrms (32 dB) 26, 32, 35 dB Class H, 2-tier 9 A*	725 W 800 W 1100 W 1300 W 1850 W 2400 W 3700 W -103 dB 3.95 Vrms (26 dB) 1.24 Vrms (+4 dBu 1.98 Vrms (26 dB) 1.09 Vrms (+4 dBu 1.73 Vrms (32 dB) 26, 32, 36 dB Class H, 2-tier 10 A*			
8Ω / EIA 1 kHz / 1% THD	475 W 715 W 8325 W 8325 W 8325 W 8326 W 8326 W 8326 W 8327 Vrms (26 dB) 8327 Vrms (26 dB) 8327 Vrms (32 dB) 8279 Vrms (26 dB) 8327 Vrms (32 dB) 8327 Vrms (32 dB) 848 Class H, 2-tier 83 A* 848 Class H, 2-tier 83 A*	625 W 900 W 1050 W 1500 W 2000 W 3000 W -103 dB 3.84 Vrms (26 dB) 1.22 Vrms (+4 dBu) 1.93 Vrms (32 dB) 3.41 Vrms (26 dB) 1.08 Vrms (+4 dBu) 1.71 Vrms (32 dB) 26, 32, 35 dB Class H, 2-tier 9 A*	800 W 1100 W 1300 W 1850 W 2400 W 3700 W -103 dB 3.95 Vrms (26 dB) 1.24 Vrms (+4 dBu 1.98 Vrms (26 dB) 1.09 Vrms (+4 dBu 1.73 Vrms (32 dB) 26, 32, 36 dB Class H, 2-tier			
4Ω / FTC 20 Hz - 20 kHz / 0.07% THD 4Ω / EIA 1 kHz / 1% THD 900 W Bridge Mono Mode 8Ω / FTC 20 Hz - 20 kHz / 0.1% THD 1100 W 4Ω / EIA 1 kHz / 1% THD 1100 W 4Ω / EIA 1 kHz / 1% THD 1100 W 4Ω / EIA 1 kHz / 1% THD 1100 W 4Ω / EIA 1 kHz / 1% THD 1100 W 128 Vrms (26 dB) 1.28 Vrms (26 dB) 1.28 Vrms (26 dB) 1.18 Vrms (26 dB) 1.18 Vrms (26 dB) 1.18 Vrms (26 dB) 1.18 Vrms (32 dB) Voltage Gain 26, 32, 32 dB Output Circuitry AB Power Requirements (1/8 power pink noise at 4Ω)** 8 A* Distortion (typical) 10 dB below rated power; 20 Hz - 20 kHz Full rated power: 1 kHz and below 10 dB below rated power; 20 Hz - 20 kHz Full rated power: 1 kHz and below 10 colors/6 kG hm unbalanced / 12k ohm balan input Clipping 10 Vrms (+22 dBu) Conling (each channel) Connectors (each channel) Connectors (each channel) DataPort Input Signal Gain Sensitivity 20 dB - 44 dB, or 32 dB Controls - Side Frequency Controls - Side Frequency Controls - Side Frequency Delay Enable (Ch. 1 only) Low-frequency Delay Enable (Ch. 1 only) High-frequency Delay Enable (Ch. 1 only) Controls - Side Power Limiter Goach channel) Power Limiter Fineshold (each channel) Power Limiter Speed (each channel) Fast: 1-8 mSec. of attack (depending, Medium: 10-80 mSec. of attack (depending, Medium: 10-	715 W 825 W 1200 W 1500 W 2400 W 1500 W 2400 W 1503 dB 3.05 Vrms (26 dB) 1.20 Vrms (+4 dBu) 1.53 Vrms (32 dB) 2.79 Vrms (26 dB) 1.10 Vrms (+4 dBu) 1.39 Vrms (32 dB) 26, 32, 34 dB Class H, 2-tier 3 A*	900 W 1050 W 1500 W 2000 W 3000 W -103 dB 3.84 Vrms (26 dB) 1.22 Vrms (+4 dBu) 1.93 Vrms (32 dB) 3.41 Vrms (26 dB) 1.08 Vrms (+4 dBu) 1.71 Vrms (32 dB) 26, 32, 35 dB Class H, 2-tier 9 A*	1100 W 1300 W 1850 W 2400 W 3700 W -103 dB 3.95 Vrms (26 dB) 1.24 Vrms (+4 dBu 1.98 Vrms (32 dB) 3.45 Vrms (26 dB) 1.09 Vrms (+4 dBu 1.73 Vrms (32 dB) 26, 32, 36 dB Class H, 2-tier			
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Output Circuitry AB Power Requirements (1/8 power pink noise at 4Ω)*** 8 A* Distortion (SMPTE-IM) < 0.01%	Class H, 2-tier 3 A* kHz, +0, -3 dB ced S-pin detachable terminal bi	Class H, 2-tier 9 A*	Class H, 2-tier			
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Power Limiter Controls - Side Power Limiter Enable (each channel) Power Limiter Mode (each channel) Power Limiter Threshold (each channel) Power Limiter Threshold (each channel) Power Limiter Speed (each channel) Range of 0 to -15 dB in 1 dB steps Fast: 1-8 mSec. of attack (depending of Medium: 10-80 mSec. of attack (depending o	active only in bi-amp mode)				
Power Limiter Enable (each channel) Power Limiter Mode (each channel) Power Limiter Threshold (each channel) Power Limiter Speed (each channel) Power Limiter Speed (each channel) Average or peak attack and release m Range of 0 to -15 dB in 1 dB steps Fast: 1-8 mSec. of attack (depending of Medium: 10-80 mSec. of attack (depending of Medium: 10-80 mSec. of attack (depending of Medium)	teps (active only in bi-amp	node)				
Power Limiter Mode (each channel) Power Limiter Threshold (each channel) Power Limiter Speed (each channel) Power Limiter Speed (each channel) Average or peak attack and release m Range of 0 to -15 dB in 1 dB steps Fast: 1-8 mSec. of attack (depending of Medium: 10-80 mSec. of attack (depending of Medium: 10-80 mSec. of attack (depending of Medium)						
Power Limiter Mode (each channel) Power Limiter Threshold (each channel) Power Limiter Speed (each channel) Power Limiter Speed (each channel) Average or peak attack and release m Range of 0 to -15 dB in 1 dB steps Fast: 1-8 mSec. of attack (depending of Medium: 10-80 mSec. of attack (depending of Medium: 10-80 mSec. of attack (depending of Medium)						
Power Limiter Threshold (each channel) Power Limiter Speed (each channel) Range of 0 to -15 dB in 1 dB steps Fast: 1-8 mSec. of attack (depending of Medium: 10-80 mSec. of attack (dependence)	ode					
Power Limiter Speed (each channel) Fast: 1-8 mSec. of attack (depending of Medium: 10-80 mSec. of attack (depending of Medium: 10-80 mSec. of attack (depending of Medium)						
Medium: 10-80 mSec. of attack (depe	on limiter mode) and 20 m	release				
Ch.1 tracks Ch. 2, Ch. 2 tracks Ch. 1, c	DEDOUGO ON IIMITER MODE) 2	Tid + Sec. release				
		ED Biamp: Plus IED Clip: Pod IED (1 por ch)			
	r off	Front: Power: Green LED Bridged: Yellow LED Parallel: Orange LED Biamp: Blue LED Clip: Red LED (1 per ch.) Level -10: Orange LED (1 per ch.) Level -20: Green LED (1 per ch.) Signal -35: Green LED (1 per ch.)				
	r off low LED Parallel: Orange L					
	r off low LED Parallel: Orange L .) Level -20: Green LED (1	2CH mode: Green LED Bridged: Yell				
	r off low LED Parallel: Orange L .) Level -20: Green LED (1 ange LED Biamp: Blue LED		range LED			
Gain +4dBu: Green LED Gain	r off low LED Parallel: Orange L .) Level -20: Green LED (1 ange LED Biamp: Blue LED P Out: Green LED DP Posi	Processing: Yellow LED Gain 26dB: Of	-			
Side: LF filter engaged: Green LED (1	r off low LED Parallel: Orange L .) Level -20: Green LED (1 ange LED Biamp: Blue LED P Out: Green LED DP Posi 32dB: Yellow LED	,	Ť			
•	r off low LED Parallel: Orange L .) Level -20: Green LED (1 ange LED Biamp: Blue LED P Out: Green LED DP Posi 32dB: Yellow LED per ch.) Power Limiter Act	vity: Yellow LED (1 per ch.)				
Load Protection On/off muting / DC-fault power supp	or off Ilow LED Parallel: Orange L I.) Level -20: Green LED (1 ange LED Biamp: Blue LED IP Out: Green LED DP Pos 32dB: Yellow LED per ch.) Power Limiter Act , ultrasonic, RF protection.	,				
Dimensions (HWD) 3.5" (8.9 cm) 2 rack spaces x 19" (48	or off Ilow LED Parallel: Orange L I.) Level -20: Green LED (1 Inge LED Biamp: Blue LED IP Out: Green LED DP Post IP Out: Green LED IP Out: Green LED IP Ower Limiter Act IP Ower	vity: Yellow LED (1 per ch.) table into reactive or mismatched load				
Weight - Net / Shipping 21 lbs (9.5 kg) / 27 lbs (12.3 kg)	or off Ilow LED Parallel: Orange L I.) Level -20: Green LED (1 Inge LED Biamp: Blue LED IP Out: Green LED DP Post IP Out: Green LED IP Out: Green LED IP Ower Limiter Act IP Ower	vity: Yellow LED (1 per ch.) table into reactive or mismatched load				

^{*}at 120 VAC, both channels driven; multiply current by 0.5 for 230V units ** Note: 1/8 power is representative of current draw with typical music program material with occasional clipping



- 1 Low pass delay network SIP* socket (J5)
- 2 Crossover frequency network SIP socket (J4)
- **3** Subaudio filter push-button switches (1 per channel)
- 4 Subaudio filter "on" indicator LEDs (1 per channel)
- * SIP is the abbreviation for Single-In-line Package
- ** DIP is the abbreviation for Dual-In-line Package

- 5 DIP*** switch for subaudio filter frequency select, low frequency delay enable, HF attenuation and horn boost
- 6 DIP switches for power limiting adjustments and clip limiting enable
- 7 Activity LEDs for indication of power limiter activity (1 per channel)

PL2A Model

