



With an unequalled reputation for sound quality and reliability, the PowerLight® Series is a range of advanced-technology professional audio amplifiers designed for touring professionals. PowerLights feature QSC’s exclusive PowerLight technology for extraordinary audio performance, reliability and reduced weight. Four models offer a range of power from 725 to 3,500 watts per channel, allowing you to choose the right power for your special application.

With PowerLight technology, PowerLight 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 and boosts reliability. 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.

PowerLight Series amplifiers also boast a set of useful features. Individually selectable clip limiters lower distortion and protect speakers, and a standby mode allows remote AC control.

PowerLight Power Amplifiers

Model	Watts per channel		
	8Ω	4Ω	2Ω*
PL3.4	725	1150	1700
PL3.8 ^x Ch 1	900	1400	2400
PL3.8 ^x Ch 2	450	800	1400
PL4.0	900	1400	2000
PL6.0II	1150	2050	3500

20 Hz – 20 kHz, 0.1% THD *1 kHz, 1% THD

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Features

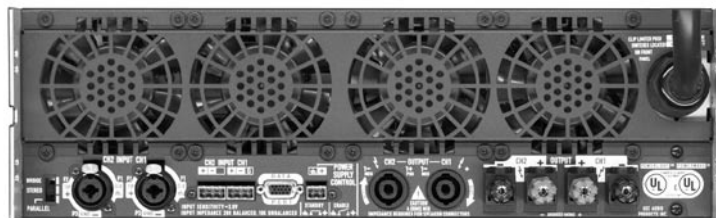
- PowerLight switching technology—for improved audio performance
- High efficiency, Class H linear output circuit lowers AC current consumption and cooling requirements by 40% or more (on selected models)
- DataPort for remote computer control
- User defeatable clip limiter reduces distortion, protects speakers
- Advanced thermal management system for superior cooling
- Detented gain controls with 2 dB steps for easy resetting
- Comprehensive LED status arrays
- Variable speed fan for quiet operation
- Remote AC power control
- DC, subsonic audio, and thermal overload protection
- Neutrik “Combo” (XLR & 1/4”) and barrier balanced input connectors
- 3 year warranty plus optional 3 year extended service contract

PowerLight Series

Specifications

	PL3.4	PL3.8 ^x		PL4.0	PL6.0II
Stereo Mode (both channels driven)	Continuous average output power per channel				
		Ch 1	Ch 2		
8Ω / FTC 20 Hz - 20 kHz / 0.1% THD	725 W	900 W	450 W	900 W	1150 W
8Ω / EIA 1 kHz / 0.1% THD	750 W	–	–	1000 W	1300 W
4Ω / FTC 20 Hz - 20 kHz / 0.1% THD	1150 W	1400 W	800 W	1400 W	2050 W
4Ω / EIA 1 kHz / 0.1% THD	1225 W	–	–	1600 W	2200 W
2Ω / EIA 1 kHz / 1% THD	1700 W	2400 W	1400 W	2000 W	3500 W
Bridge Mono Mode					
8Ω / FTC 20 Hz - 20 kHz / 0.1% THD	2300 W	–	–	2800 W	4400 W
4Ω / EIA 1 kHz / 1% THD	3400 W	–	–	4000 W	7000 W
Distortion (SMPTE-IM)	< 0.05%	< 0.01%	< 0.01%	< 0.05%	< 0.02%
THD (typical) 4Ω to 8Ω 20 Hz - 20 kHz, 10 dB below rated power. 1.0 kHz and below. full rated power	0.01%	0.01%	0.01%	0.01%	0.06%
Damping Factor (1 kHz and below)	> 500	> 500	> 500	> 500	> 2000
Signal to Noise (20 Hz - 20 kHz)	108 dB	105 dB	105 dB	105 dB	107 dB
Input Sensitivity at 8Ω	0.96	1.08	1.24	1.06	2.40
Voltage Gain	80x (38 dB)	80x (38 dB)	49x (34 dB)	80x (38 dB)	40x (32 dB)
Output Circuitry	Class H (3-tier)	Class H (3-tier)	Class H (2-tier)	Class H (3-tier)	Class H (4-tier)
Cooling (Variable speed fans, rear-to-front air flow)	Single fan	Single fan	Single fan	Single fan	Four fans
Weight (net)	30 lbs (13.6 kg)	30 lbs (13.6 kg)	30 lbs (13.6 kg)	30 lbs (13.6 kg)	53 lbs (24 kg)
120 V Current Consumption (1/8 Power Pink Noise at 4Ω) Multiply current by 0.5 for 230 V units	11.5 A	15.2 A	15.2 A	15.2 A	16 A
Connectors (each channel)	Input: Neutrik "Combo" XLR + 1/4" / TRS input and barrier strip			Output: "Touch proof" binding posts	
Frequency Response	20 Hz – 20 kHz / ±0.15 dB PL 6.0II: 2 Hz - 50 kHz / +0, -3 dB PL3.4 and PL4.0: 5 Hz – 60 kHz / +0, -3 dB PL3.8: 8 Hz – 100 kHz / +0, -3 dB				
Input Impedance	10k ohm unbalanced / 20k ohm balanced				
Amplifier Protection	Full short circuit, open circuit, thermal, ultrasonic, RF protection. Stable into reactive or mismatched loads				
Controls	Front: AC switch / Ch.1 and Ch.2 gain knobs / Ch.1 and Ch.2 clip limiter switches Rear: Parallel - Stereo - Bridge switch / Remote AC Control terminal strip				
Load Protection	On/off muting / DC-fault power supply shutdown				
Indicators	Prot: Red LED / Standby: Yellow LED / Power-On: Green LED / Clip: Red LED / Signal: Green LED / Level -10 dB: Yellow LED / Level -20 dB: Yellow LED (each channel)				
Power Requirements	120 / 230 Vac / 50 - 60 Hz				
Power Connectors	30 A twist lock (PL3.8x, PL4.0, PL6.0II) / 15 A edison (PL3.4) Export versions have removable IEC connectors				
Dimensions	19.0" (48.3 cm) rack mounting (all models) / 17.9" (45.5 cm) deep behind front mounting rails (all models) Overall depth on PL 6.0II 19.5" Height: 5.25" (13.3 cm) 3 RU				

* at 0.2% THD; ** EIA 1.0% THD 1 kHz



Specifications subject to change without notice.

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