

POWERLIGHT

PROFESSIONAL POWER AMPLIFIERS

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 PowerWave 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 PowerWave technology, PowerLight amplifiers take your sound to

a whole new level. Not only does it give you tighter bass and clean transparent highs, PowerWave also cuts waste heat and boosts reliability. PowerWave 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.

Model	Watts per Channel		
	8Ω	4Ω	2Ω
PowerLight			
PL3.4	725	1150	1700
PL3.8*	900	1400	2400
Ch-1			
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

PowerLight Features

- PowerWave 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



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POWERLIGHT SPECIFICATIONS	PL3.4	PL3.8 ^X	PL4.0	PL6.0 ^{II}	
Stereo Mode (both channels driven)		Continuous Average Output Power Per Channel			
		Ch1	Ch2		
8 ohms FTC 0.1% THD 20 Hz-20 kHz	725W	900W	450W	900W 1150W	
8 ohms EIA 1.0% THD 1 kHz	750W	-		1000W 1300W	
4 ohms FTC 0.1% THD 20 Hz-20 kHz	1150W	1400W	800W	1400W 2050W	
4 ohms EIA 1.0% THD 1 kHz	1225W	-		1600W 2200W	
2 ohms EIA 1.0% THD 1 kHz	1700W	2400W	1400W	2000W 3500W	
Bridge Mono Mode					
8 ohms FTC 0.1% THD 20 Hz-20 kHz	2300W	-		2800W 4400W**	
4 ohms EIA 1.0% THD 1 kHz	3400W	-		4000W 7000W	
Distortion (SMPTE-IM)	<0.05%	<0.01%		<0.05% <0.02%	
THD (Typical) (4 to 8 ohms: 20 Hz-20kHz, 10 db below rated power. 1.0 kHz and below, full rated power)	0.01%	0.01%		0.01% 0.06%	
Damping Factor (1 kHz and below)	>500	>500		>500 >2000	
Signal to Noise (20 Hz-20 kHz)	108 dB	105 dB		105 dB 107 dB	
Input Sensitivity @ 8 ohms (in Vrms)	0.96	1.08	1.24	1.06 2.40	
Voltage Gain (in dB)	80x (38)	80x(38)	49x(34)	80x (38) 40x (32)	
Output Circuitry	H (3-Step)	3-Step	2-Step	H (3-Step) H (4-Step)	
Cooling (Variable speed fans, rear-to-front air flow)	Single Fan	Single Fan		Single Fan Four Fans	
Height (1 RU=1.75" (4.45cm))	3 RU	3 RU		3 RU 3 RU	
Weight (net)	30 lbs (13.6 kg)	30 lbs (13.6 kg)		30 lbs (13.6 kg) 53 lbs (24 kg)	
120v Current Consumption (1/8 Power Pink Noise @ 4 ohms) Multiply current by 0.5 for 230V units.	11.5 A	15.2 A		15.2 A 16 A	
All models		All models			
Connectors (each channel)	Input: Neutrik "Combo" XLR + 1/4" TRS input and Barrier strip (Eurostyle detachable headers on PL 6.0 ^{II}) Output: "Touch-proof" binding posts				
Frequency Response	20 Hz-20 kHz, ±0.15 dB / 2 Hz-50 kHz, +0, -3 dB (PL 6.0 ^{II}), 5 Hz-60 kHz, +0, -3 dB (PL 3.4 & PL 4.0), 8 Hz-100 kHz, +0, -3 dB (PL 3.8)				
Input Impedance	10 kΩ unbalanced, 20 kΩ balanced				
Amplifier Protection	Full short circuit, open circuit, thermal, ultrasonic and 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 (each channel)	CLIP: Red LED			
	STANDBY: Yellow LED	LEVEL -10 dB: Yellow LED			
	PWR-ON: Green LED	LEVEL -20 dB: Yellow LED			
		SIGNAL: Green LED			
					
Power Requirements	120, 230 Vac, 50-60 Hz				
Power Connectors	30 amp twist lock (PL 3.8 ^X , PL 4.0, PL 6.0 ^{II}) 15 amp edison (PL 3.4) Export versions have removable IEC connectors				
Width / Height	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 6.0 ^{II} 19.5"				

* @ 0.2% THD; ** EIA 1.0% THD 1 kHz Specifications subject to change without notice.