



POWERWAVE 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. Six models offer a range of power from 725 to 4,500 watts per channel, allowing you to choose the right power for your special application. Power Factor Correction (PFC) on the PowerLight 6.0 and PowerLight 9.0 lowers current draw by over 40%, making them the most efficient amplifiers available.

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.

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)
- PFC on PL 6.0 and 9.0 improves audio performance and lowers AC current requirements
- 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

Model	Watts per Channel		
	8 Ω	4 Ω	2 Ω^*
PL3.4	725	1150	1700
PL3.8 ^X	900	1400	2400
		800	1400
PL4.0	900	1400	2000
PL6.0II	1150	2050	3500
PL6.0 ^{PFC}	1500	2500	3150
PL9.0 ^{PFC}	1800	3200	4500

20 Hz–20 kHz, 0.1% THD *1 kHz, 1% THD

POWERLIGHT SPECIFICATIONS		PL3.4		PL3.8 ^X		PL4.0		PL6.0II		PL6.0 ^{PFC}		PL9.0 ^{PFC}	
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		1500W		1800W*	
8 ohms	EIA 1.0% THD 1 kHz	750W		-		1000W		1300W		1625W		1950W	
4 ohms	FTC 0.1% THD 20 Hz-20 kHz	1150W		1400W	800W	1400W		2050W		2500W		3200W*	
4 ohms	EIA 1.0% THD 1 kHz	1225W		-		1600W		2200W		2650W		3400W	
2 ohms	EIA 1.0% THD 1 kHz	1700W		2400W	1400W	2000W		3500W		3150W		4500W	
Bridge Mono Mode				Continuous Average Output Power									
8 ohms	FTC 0.1% THD 20 Hz-20 kHz	2300W		-		2800W		4400W**		5000W		6400W	
4 ohms	EIA 1.0 % THD 1 kHz	3400W		-		4000W		7000W		6300W		9000W	
Distortion (SMPTE-IM)				<0.05%		<0.01%		<0.05%		<0.02%		<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%		0.06%	
Damping Factor (1 kHz and below)				>500		>500		>500		>2000		>2000	
Signal to Noise (20 Hz-20 kHz)				108 dB		105 dB		105 dB		107 dB		107 dB	
Input Sensitivity @ 8 ohms (in Vrms)				0.96		1.08	1.24	1.06		2.40		2.70	
Voltage Gain (in dB)				80x (38)		80x (38)	49x (34)	80x (38)		40x (32)		40x (32)	
Output Circuitry				H (3-Step)		3-Step	2-Step	H (3-Step)		H (4-Step)		H (4-Step)	
Cooling (Variable speed fans, rear-to-front air flow)				Single Fan		Single Fan		Single Fan		Four Fans		Four Fans	
Height (1 RU=1.75" (4.45cm))				3 RU		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)		59 lbs (27 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		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 ^{PFC} , PL 6.0II and 9.0 ^{PFC} only) Output: "Touch-proof" binding posts (PL 6.0 ^{PFC} and 9.0 ^{PFC} include Neutrik Speakon and 60A rated binding post)									
Frequency Response				20 Hz-20 kHz, ± 0.15 dB / 2 Hz-50 kHz, +0, -3 dB (6.0 ^{PFC} , 6.0II & 9.0 ^{PFC} only) 5 Hz-60 kHz, +0, -3 dB (3.4 & 4.0 only) 8 Hz-100 kHz, +0, -3 dB (all other models)									
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 ^{PFC} , PL 6.0II & PL 9.0 ^{PFC}) 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 ^{PFC} , PL 6.0II & PL 9.0 ^{PFC} (19.5")									

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

Specifications subject to change without notice.

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