# **PowerLight™ 3 Series**



**Professional Power Amplifiers** 

PL325 | PL340 | PL380

The PowerLight™ 3 Series is designed for the most demanding live audio users, whether in touring rigs or fixed installations. The most requested features of the PowerLight 2 series have been upgraded to deliver "the ultimate analog amplifier", while the QSC DataPort ensures full compatibility with advanced digital processing and QSControl.net™. Three models range in power from 1250 watts to 4000 watts per channel at two ohms, all in two-rack space chassis that are only 15.6" (40 cm) deep and 22 lb (10 kg).

In addition to higher power, the PowerLight 3 Series offers higher input voltage, selectable sensitivity, and easily adjusted rear panel switches with color coded LED indicators. For those users who simply want a high performance amplifier to go with their existing processor or console, the PowerLight 3 Series is an ideal choice, offering high power, excellent value, and zero signal latency. When complete integration of amplifier control, monitoring and DSP is desired, the PowerLight 3 Series is fully compatible with the QSControl.net™ BASIS™ networked audio platform, with its comprehensive drag and drop DSP functionality. Simpler DSP requirements can be met with the DSP-4 processing module.

The flagship of the PowerLight 3 Series is the new 8000 watt PL380. This highly refined, all-switchmode amplifier incorporates nearly 40 years of QSC engineering experience, resetting expectations for Class D audio quality. The PL380 combines a pair of 4000 watt Class D amplifier channels with the well proven PowerLight supply, to deliver more than twice as much audio power as previous 2 rack unit PowerLight amplifiers. Reactive "back EMF" from the speaker is recycled to the power supply, and unmatched "plug-to-plug" efficiency of 85% keeps AC power needs to a minimum, while delivering more energy to the speaker.

Years of patient development have resulted in outstanding 20 Hz - 20 kHz audio performance, plus complete protection from normal hazards of the trade. Even simple features such as dependably silent, surge-free on-off switching indicate the special care taken to keep things safely under control. The most pronounced "sonic signature" of the PL380 is one of immense headroom, sailing through even the most difficult loads with no signs of stress or change of tonality.

For lower power applications, the PL325 and PL340 offer the same feature set, matched to upgraded versions of QSC's most advanced linear amplifier platform. Recent advances in power supply capacitors further improve power and low-impedance performance, while continuing to offer the best available audio performance. As a result, designers have the choice of running a single type of amplifier throughout their rig, or matching amplifier performance to specific transducer types.

In keeping with normal QSC design standards, back-to-front airflow provides up to twice as much long-term average power as most competitors, without dumping hot air into the rack. All PowerLight 3 models are built in the same chassis size, with common back panel layouts to facilitate easy racking and hookup.

### PowerLight™ 3 Power Amplifiers - Watts at Clipping

Model	Watts per channel			
	8Ω	4Ω	2Ω	
PL325	500	850	1250	
PL340	800	1250	2000	
PL380	1500	2500	4000*	

EIA 1 kHz 1% THD



#### **Features**

- PowerLight switchmode power supply for highest efficiency and improved audio performance
- Flow-thru air path and solid aluminum heat sinks for maximum cooling
- DataPort supports remote computer control and/or external DSP-4 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 per channel (3 Hz, 30 Hz, or 50 Hz)
- Three selectable input gains (26 dB, 32 dB, or 1.2V)
- Front and rear panel LEDs indicate status of switch settings at a glance
- Parallel Dataport, XLR/M and XLR/F connectors for simple loop-through connectivity
- Neutrik Speakon™ and "Touch Proof" binding post outputs
- Neutrik Powercon<sup>™</sup> power cable remains secure on the road
- 3-year warranty, plus optional 3-year extended service contract

#### **PL340 and PL325**

 Linear Class H output circuit doubles standard Class B efficiency to reduce AC current consumption and cooling requirements

#### PL380

 Class D output circuit re-doubles the output power with even lower losses and minimal increase in average AC power, dramatically reducing power distribution demands compared to older high power amplifiers

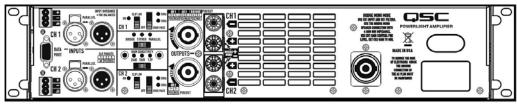
<sup>\*</sup>Burst mode testing required due to AC service current limitations

## **Specifications**

Stero Mode (both channels driven)   80 / EA 1 kHz / 196 THD   500 W   800 W   1500 W   2500 W   40 / EA 1 kHz / 196 THD   1250 W   2500 W   2500 W   2600			
8Ω / ElA 1 kHz / 196 THD         500 W         800 W         1500 W           4Ω / ElA 1 kHz / 196 THD         850 W         1250 W         2500 W           Bridge-Mono Mode         3Ω / ElA 1 kHz / 196 THD         1700 W         2600 W         5000 W           4Ω / ElA 1 kHz / 196 THD         2500 W         4000 W         8000 W*           19pical Distortion         (20 Hz - 3 kHz, 3dB below dip, or 20 Hz - 5 kHz, 10dB below dip, or 20 Hz - 5 kHz, 10dB below dip, or 20 Hz - 5 kHz, 20dB below dip, or 20 Hz - 20 kHz, 20dB below dip, or 20 Hz - 20 kHz, 20dB below dip, or 20 Hz - 20 kHz, 1 dB below rated power)         0.002 - 0.0196         0.002 - 0.0196         0.01 - 0.03*           4Ω         0.005 - 0.0196         0.0296         0.0296         0.0096 <td></td>			
4Ω / ElA 1 kHz / 196 THD         850 W         1250 W         2500 W         4000 W*           Bridge-Mono Mode         Bridge-Mono Mode         Section Was 2600 W         5000 W         5000 W         5000 W         8000 W*           Typical Distortion         Col 12 x - 3 kHz, 196 THD         2500 W         4000 W         8000 W*         8000 W*           Typical Distortion         Col 12 x - 3 kHz, 19dB below dip, or         20 Hz - 20 kHz, 20 kHz, 40 Below dip, or         20 Hz - 20 kH			
2Ω / EIA 1 kHz / 196 THD 1250 W 2000 W 4000 W 5000 W 8000 W*  Bridge-Mono Mode  BΩ / EIA 1 kHz / 196 THD 2500 W 4000 W 8000 W*  Typical Distortion (20 Hz - 3 kHz, 3dB below dip, or 20 Hz - 20 kHz, 3dB below dip, or 20 Hz - 20 kHz, 20dB below dip)  BΩ 0.002 - 0.0196 0.005 - 0			
8Ω / EIA 1 kHz / 196 THD 2500 W 2500 W 4000 W 5000 W*  Typical Distortion  (20 Hz - 3 kHz, 3dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 5 kHz, 3dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 20 kHz, 1 dB below rated power)  4Ω			
4Ω / EIA 1 kHz / 196 THD 2500 W 4000 W 8000 W* Typical Distortion (20 Hz - 3 kHz, 3dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 20 kHz, 20dB below clip, or 20 Hz - 20 kHz, 20dB below clip) 8Ω 0.002 - 0.01% 0.005 - 0.01% 0.005 - 0.01% 0.005 - 0.01% 0.005 - 0.01% 0.005 - 0.00% 0.005 - 0.01% 0.005 - 0.01% 0.005 - 0.00% 0.005 - 0.01% 0.005 - 0.005 - 0.005 - 0.005			
Typical Distortion (20 Hz – 2 kHz, 3dB below clip, or 20 Hz – 5 kHz, 10dB below clip, or 20 Hz – 5 kHz, 20dB below clip)  8Ω 0.002 – 0.01% 0.005 – 0.01% 0.03 – 0.06 2Ω 0.005 – 0.01% 0.03 – 0.06 2Ω 0.02% 0.02% 0.02% 0.00% 0.02% 0.00% 0.02% 0.00% 0.02% 0.00%			
QO Hz - 3 kHz, 3dB below dip, or 20 Hz - 5 kHz, 10dB below dip, or 20 Hz - 5 kHz, 10dB below dip, or 20 Hz - 20 kHz, 20dB below dip)   8Ω			
20 Hz – 5 kHz, 10dB below dip, or 20 Hz – 20 kHz, 20dB below dip)  8Ω 0.002 – 0.01% 0.005 – 0.01% 0.005 – 0.01% 0.03 – 0.06 2Ω 0.02% 0.02% 0.02% 0.00%  Maximum Distortion (20 Hz – 20 kHz, 1 dB below rated power)  4Ω – 8Ω 0.05% 0.05% 0.05% 0.20%			
20 Hz – 20 KHz, 20dB below dip)  8Ω 0.002 – 0.01% 0.002 – 0.01% 0.005 – 0.01% 0.03 – 0.06  2Ω 0.005 – 0.01% 0.005 – 0.01% 0.005 – 0.01% 0.03 – 0.06  2Ω 0.02% 0.02% 0.02% 0.02% 0.10%  Maximum Distortion (20 Hz – 20 kHz, 1 dB below rated power)  4Ω – 8Ω 0.05% 0.05% 0.05% 0.20%  Frequency Response (8Ω) 20 Hz – 20 kHz, +/-0.2 dB 20 Hz – 20 kHz, +/-0.2 dB 20 Hz – 20 kHz, 2 dB 32			
8Ω 0.002 - 0.01% 0.002 - 0.01% 0.001 - 0.034 4Ω 0.005 - 0.01% 0.005 - 0.01% 0.003 - 0.066 2Ω 0.02% 0.02% 0.02% 0.02% 0.10%  Maximum Distortion (20 Hz - 20 kHz, 1 dB below rated power) 4Ω - 8Ω 0.05% 0.05% 0.05% 0.05% 0.20%  Frequency Response (8Ω) 20 Hz - 20 kHz, +/-0.2 dB 20 Hz - 20 kHz, +/-0.2 dB 20 Hz - 20 kHz, +/-0.2 dB 20 Hz - 20 kHz, 2 dB 20 Hz - 20 kHz, 32 dB Gain) -106 dB -105 dB -104 dB 20 Hz - 20 kHz, 2 dB 2 d			
4Ω         0.005 - 0.01%         0.005 - 0.01%         0.03 - 0.06           2Ω         0.02%         0.02%         0.02%           Maximum Distortion         (20 Hz - 20 kHz, 1 dB below rated power)           4Ω - 8Ω         0.05%         0.05%         0.20%           Frequency Response (8Ω)         20 Hz - 20 kHz, +/-0.2 dB         20 Hz - 20 kHz, +/-0.2 dB         20 Hz - 20 kHz, +/-0.2 dB         20 Hz - 20 kHz, 2 dB         2 dB           Dynamic Headroom (4Ω)         2 dB			
2Ω         0.02%         0.02%         0.10%           Maximum Distortion         (20 Hz – 20 kHz, 1 dB below rated power)         4Ω – 8Ω         0.05%         0.05%         0.20%           Frequency Response (8Ω)         20 Hz – 20 kHz, +/-0.2 dB         2 dB	o'		
Maximum Distortion         (20 Hz - 20 kHz, 1 dB below rated power)         4Ω - 8Ω         0.05%         0.20%           Frequency Response (8Ω)         20 Hz - 20 kHz, +/-0.2 dB         20 dB         <	6		
(20 Hz – 20 kHz, 1 dB below rated power)         4Ω – 8Ω         0.05%         0.20%           Frequency Response (8Ω)         20 Hz – 20 kHz, +/-0.2 dB         20 Hz – 20 kHz, +/-0.2 dB         20 Hz – 20 kHz, -20 dB           Noise (20 Hz – 20 kHz, 32 dB Gain)         -106 dB         -105 dB         -104 dB           Dynamic Headroom (4Ω)         2 dB         2 dB         2 dB           Damping Factor (8Ω)         500         500         200           Output Circuitry         2-tier Class H         2-tier Class H         Class D           Input Sensitivity         3.28V         3.92V         5.27V           (32 dB Setting)         1.60V         1.96V         2.67V           Input Gain (1.2V Setting)         34.5 dB         36.4 dB         39.1 dB           Maximum Input Level         11V (+23 dB)         11V (+23 dB)         10V (+22 dB)           (1.2V Setting)         11V (+23 dB)         11V (+23 dB)         22V (+29 dB)           (26 dB Setting)         25V (+30 dB)         25V (+30 dB)         25V (+30 dB)           (1.2V Setting)         11V (+23 dB)         11V (+23 dB)         10V (+22 dB)           (32 dB Setting)         25V (+30 dB)			
4Ω - 8Ω         0.05%         0.05%         0.20%           Frequency Response (8Ω)         20 Hz - 20 kHz, +/-0.2 dB         20 Hz - 20 kHz, +/-0.2 dB         20 Hz - 20           Noise (20 Hz - 20 kHz, 32 dB Gain)         -106 dB         -105 dB         -104 dB           Dynamic Headroom (4Ω)         2 dB         2 dB         2 dB           Damping Factor (8Ω)         500         200           Output Circuitry         2-tier Class H         2-tier Class H         Class D           Input Sensitivity         (26 dB Setting)         3.28V         3.92V         5.27V           (32 dB Setting)         1.60V         1.96V         2.67V           Input Gain (1.2V Setting)         34.5 dB         36.4 dB         39.1 dB           Input Impedance         >10k, balanced or unbalanced			
Frequency Response (8Ω)   20 Hz – 20 kHz, +/-0.2 dB   20 Hz – 20 kHz, +/-0.2 dB   20 Hz – 20 kHz, -/-0.2 dB   -104 dB			
Noise (20 Hz – 20 kHz, 32 dB Gain)  -106 dB  -105 dB  -105 dB  -104 dB  Dynamic Headroom (4Ω)  2 dB  2 dB  2 dB  2 dB  2 dB  Damping Factor (8Ω)  500  500  200  Output Circuitry  2-tier Class H  2-tier Class H  Class D  Input Sensitivity  (26 dB Setting)  3.28V  3.92V  5.27V  (32 dB Setting)  1.60V  1.96V  2.67V  Input Gain (1.2V Setting)  34.5 dB  36.4 dB  39.1 dB  Input Impedance  >10k, balanced or unbalanced  >10k (+22 dB)  (32 dB Setting)  14.6V (+25.5 dB)  18V (+27.4 dB)  22V (+29 d  (26 dB Setting)  25V (+30 dB)  Controls and LEDs - Front Panel  Common: AC Power Switch, Power (Blue), Br Mono (Yellow), Par (Orange)  Each Channel: Signal -35 dB, -20 dB (Green), -10 dB (Orange), Clip/Prot (Red) Gain Control, 21 detents, 1  Controls and LEDs - Rear Panel  Common: Input Mode: Parallel (Orange), Stereo (Green), Br Mono (Yellow) Sensitivity: 26dB (Orange), 3  Each Channel: LF Filter: Off, 30 Hz (Yellow), 50 Hz (Orange) Clip Limit: Off, On (Yellow)  Input Connectors  Common: HD-15 DataPort (inputs wired in parallel with XLR)	-U / 0.2 JD		
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Output Circuitry  2-tier Class H  2-tier Class H  Class D  Input Sensitivity  (26 dB Setting)  3.28V  3.92V  5.27V  (32 dB Setting)  1.60V  1.96V  2.67V  Input Gain (1.2V Setting)  34.5 dB  36.4 dB  39.1 dB  Input Impedance  >10k, balanced or unbalanced >10k, balanced or unbalanced >10k, balanced or unbalanced  Naximum Input Level  (1.2V Setting)  11V (+23 dB)  11V (+23 dB)  10V (+22 dB)  (32 dB Setting)  14.6V (+25.5 dB)  18V (+27.4 dB)  22V (+29 dC)  (26 dB Setting)  25V (+30 dB)  25V (+30 dB)  Controls and LEDs - Front Panel  Common: AC Power Switch, Power (Blue), Br Mono (Yellow), Par (Orange) Each Channel: Signal -35 dB, -20 dB (Green), -10 dB (Orange), Clip/Prot (Red) Gain Control, 21 detents, 1  Controls and LEDs - Rear Panel  Common: Input Mode: Parallel (Orange), Stereo (Green), Br Mono (Yellow) Sensitivity: 26dB (Orange), 3 Each Channel: LF Filter: Off, 30 Hz (Yellow), 50 Hz (Orange) Clip Limit: Off, On (Yellow)  Input Connectors  Common: HD-15 DataPort (inputs wired in parallel with XLR)			
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Controls and LEDs - Front Panel  Common: AC Power Switch, Power (Blue), Br Mono (Yellow), Par (Orange)  Each Channel: Signal -35 dB, -20 dB (Green), -10 dB (Orange), Clip/Prot (Red) Gain Control, 21 detents, 1  Controls and LEDs - Rear Panel  Common: Input Mode: Parallel (Orange), Stereo (Green), Br Mono (Yellow) Sensitivity: 26dB (Orange), 3  Each Channel: LF Filter: Off, 30 Hz (Yellow), 50 Hz (Orange) Clip Limit: Off, On (Yellow)  Input Connectors  Common: HD-15 DataPort (inputs wired in parallel with XLR)	*		
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Input Connectors Common: HD-15 DataPort (inputs wired in parallel with XLR)	145 (6.66.1)/ 1121 (16.61)		
	Common: HD-15 DataPort (inputs wired in parallel with XLR)		
Output Connectors Each Channel: 5-way Binding Posts, Neutrik Speakon®, (Ch 1 wired to both channels)	Each Channel: 5-way Binding Posts, Neutrik Speakon <sup>®</sup> , (Ch 1 wired to both channels)		
Amplifier and Load Protection Short circuit, open circuit, thermal, RF protection. On/off muting, DC fault shutdown, active inrush limiting	Short circuit, open circuit, thermal, RF protection. On/off muting, DC fault shutdown, active inrush limiting		
AC Power**/Cordset			
120V 50/60 Hz 8.5A/NEMA-15 12A/NEMA-15 18A/NEMA	L5-30P		
230V 50 Hz 7.5A/ CEE 7/7 16A 7A/ CEE 7/7 16A 11A/ CEE 7/			
Chassis Power Connector (All Voltages) 20A PowerCon™ 20A PowerCon™ 32A	on™		
Dimensions (HWD) Height: 3.5" (8.9 cm) 2 RU / Width: 19" (48.3 cm) / Depth: 15.63" (39.7 cm) from front mounting rails			
	) / 33.5 lb (15.2 kg)		
Agency Approvals  UL, CE, RoHS/WEEE compliant, FCC Class B (conducted and radiated emissions)	<u> </u>		

<sup>\*</sup> Burst mode testing required due to AC service current limitations

<sup>\*\*</sup> Representative of current draw with typical music program material with occasional clipping



All specifications are subject to change without notice.

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