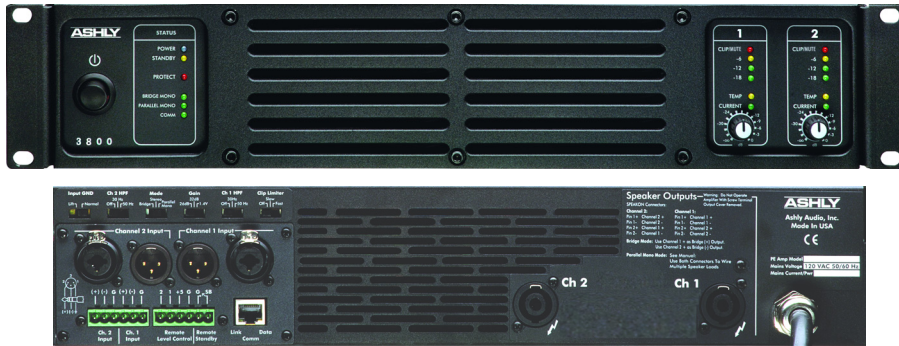


# PE Series High Performance Amplifiers

## PE Series specifications

800 | 1200 | 1800 | 2400 | 3000 | 3800 |



PE-Series (Protea Enabled) amplifiers are more than just a standard power amplifier. While the six two-channel models offer an impressive range of power from 400 to 1900 watts per channel at four ohms, their Ethernet capabilities greatly increase their value in network audio applications.

PE Series amplifiers are high-power, high-efficiency, lightweight amplifiers incorporating the latest in power and control technologies. Each amplifier can be controlled and monitored through the built-in Ethernet port using standard, inexpensive, readily-available Ethernet hardware and Protea NE Software™. This extremely easy to use software provides you access to many features, including real time control of input attenuation, channel mute, channel polarity, and power on/off. The software also allows you to monitor input level, output level, output current, clipping, protect and temperature. The ability to either disable the amplifier’s front panel or remote attenuators or set the maximum level for these controls with the software ensure that system levels cannot be exceeded by unauthorized personnel.

By adding Ashly’s Protea DSP technology and control to an amplifier, we have designed a comprehensive and easy to use audio system. Control anywhere from one to hundreds of amps, as well as Protea Series processors, on- or off-site with our intuitive and friendly Proteane Software.

PE-Series amplifiers utilize a 2-stage high-efficiency switched mode power supply providing a high-power-to-weight ratio. All are two rack units high, weigh less than 24lbs and will drive 2, 4 or 8 ohm loads. Input connections are via XLR-1/4” Neutrik combo connectors and 6-pin Euroblock. XLR male connectors are also provided for looping to additional amplifiers. Output connectors are locking Neutrik Speakon (NL-4) on all models and 4 position screw terminal strip with safety cover on models 800 and 1200.

PE Series amplifiers have on-board analog processing including a selectable subsonic filter, a selectable clip-limiter and an input-sensitivity selector, which optimizes the amplifier for load and the many devices that can drive it. Additionally, each amplifier also provides DC voltage control of the calibrated input attenuators, which makes it a snap to control volume from remote locations, and Remote Power Turn-on/-off with sequential power on/off circuitry built right into the amplifier. LED indicators for power, standby, protect, bridge mono, parallel mono and network communications are located on the left side of the front panel. On the right side, each channel has a four-step signal meter, temperature and current indicators.

Ashly has long believed that the secret to great sound and reliability is intelligent design and meticulous execution. Our PE Series takes that philosophy and multiplies it ten-fold. Optimized for cool operation, modularity, ultimate compatibility and maximum performance, the PE Series is the amplifier line you’ve been waiting for.

When your next project requires high performance amplifiers with superb sound, reliability, remote control and more, Ashly Audio’s PE Series of remote-controlled power amplifiers have been designed to meet the needs of both portable and installation applications.

### Features:

- 10/100 Ethernet is Standard
- Protea DSP/AES Input Options
- CobraNet Input Option
- Complete Amplifier Control
- DC Voltage Control
- Ethernet Remote Control & Monitoring
- 2-Stage High Efficiency Switched Mode Power Supply
- Calibrated, Stepped Input Attenuators
- Input Sensitivity 26dB, 36db or 1.4V
- DC Voltage Control of Input & Remote Power Turn-On/Off
- Temperature Sensitive Variable Speed Fan Front to Back Airflow
- Selectable Subsonic Filter
- Selectable Clip-Limiter
- 4-Stage Level Meters
- Output Current & Temp Indicators
- Safety/Compliance: cTUVus/FCC, CE, RoHS

#### Watts per channel

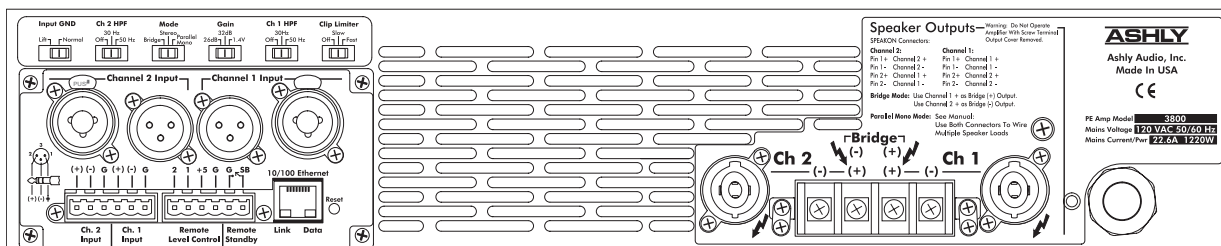
Model	8 ohms	4 ohms	8 ohm mono bridge
800	200	400	800
1200	300	600	1200
1800	500	900	1800
2400	700	1200	2400
3000	900	1500	3000
3800	1100	1900	3800

#### Options:

- Protea DSP Input Option Modules (Euroblock or XLR)
- CobraNet Input Option Module

	800	1200	1800	2400	3000	3800
Rated Power 8 ohms (per channel)	200W	300W	500W	700W	900W	1100W
Rated Power 4 ohms (per channel)	400W	600W	900W	1200W	1500W	1900W
Rated Power 2 ohms (per channel)	700W	1100W	1400W	1500W	1500W	1500W
Rated Power 8 ohms (Bridged)	800W	1200W	1800W	2400W	3000W	3800W
S/N (20 Hz-20 kHz, unweighted)	>98dB	>105dB	>108dB	>110dB	>111dB	>112dB
1/8 Power, Pink Noise, 4 ohms	420W	540W	611W	790W	1010W	1220W
1/8 Idle, Pink Noise 4 ohms	9.4A	13.6A	13.0A	15.8A	19.6A	22.6A
1/8 Idle, Pink Noise 8 ohms	2.4A	2.8A	2.4A	2.4A	2.6A	2.8A
Output Circuitry	Class-AB	Class-AB	Class-H	Class-H	Class-H	Class-H
Power Cable	15A Edison	20A Edison	20A Edison	20A Edison	30A Twistlock	30A Twistlock
Weight: Net	22.0 lbs. (9.98kg)	22.0 lbs. (9.98kg)	23.0 lbs. (10.43kg)	23.0 lbs. (10.43kg)	24.0 lbs. (10.89kg)	24.0 lbs. (10.89kg)
Shipping	27.0 lbs. (12.25kg)	27.0 lbs. (12.25kg)	28.0 lbs. (12.70kg)	28.0 lbs. (12.70kg)	29.0 lbs. (13.15kg)	29.0 lbs. (13.15kg)

Frequency Response (8 ohms)	20 Hz - 20k Hz, (unweighted) ±0.15dB
Distortion (SMPTE, typical)	<0.01% (8 ohm load, 10dB below rated power)
Distortion THD+N, typical)	<0.01% (8 ohm load, 10dB below rated power)
Input Impedance	20k ohms, balanced
Input Gain	26dB, 32dB or 1.5V
Maximum Input Level	+21dBu
Damping Factor	>400 (8 ohm load)
Damping Factor (8 ohms)	> 250
Cooling	Temperature dependent speed controlled fan, Front-in, Rear-out flow
Control Network	onboard, standard 10/100 Ethernet
Connectors (each channel)	Input - XLR female/TRS, Euroblock, XLR male (looping) Output - Speakon, Screw terminal (800, 1200) Speakon (1800, 2400, 3000, 3800)
Front Controls	AC Power Switch, Individual input attenuators
Front indicators (LED color)	per channel: Clip, -6dB, -12dB, -18dB, Temp, Current Power, Standby, Bridge Mono, Parallel Mono, Comm
Amplifier and Load Protection	inrush current limitation, temperature monitoring heat-sinks, output DC protection, power transistor SOA protection, output over-current protection, mains fuses protection
Dimensions	Height: 3.50" (88.9mm) 2RU Width: 19" (483 mm) Depth: 15.5" (394mm)
Environmental	40-120deg. F, (4-49deg. C) noncondensing



Ashly Audio, Inc.  
 847 Holt Road  
 Webster, New York USA 14580-9103  
 P: 800-828-6308, +1-585-872-0010  
 F: +1-585-872-0739  
 www.ashly.com info@ashly.com

Specifications subject to change without prior notice.  
 Latest information available at www.ashly.com.  
 © 2008 Ashly Audio, Inc.  
 Printed in U.S.A. 06/08

Notes:  
 OdBu = 0.775 VRMS  
 Power ratings are per channel at 1% THD+N