



Description

SP series amplifiers combine high efficiency Class D power with precision digital signal processing to deliver a complete system solution for a variety of portable and fixed installation applications. On-board DSP can replace a whole rack of outboard processors saving rack space, installation time and cost; and all settings can be controlled and monitored either from the front panel or remotely by computer.

Advanced Class D topology delivers massive power at over 90% efficiency, meaning that SP amplifiers will deliver more output power per watt of AC input than any Class AB or Class H design. And, with a wide power band, flat response and distortion below 0.01% there is no compromise in sonic fidelity, making this one of the best sounding digital amplifiers available.

On-board signal processing is built around a 32-bit DSP utilizing precision 24-bit Sigma-Delta converters and a 48 kHz sample rate for maximum fidelity. Precision algorithms deliver multi-band parametric EQ, up to 48dB/octave crossover filters, dynamic limiters and alignment delay. Up to 20 presets can be utilized to save configurations, and all settings can be backed up to a computer.

Control and monitoring of the SP series is handled by the included VibeNET™ software. Featuring an intuitive user interface, Vibe NET™ allows direct connection between a computer and amplifier over a supplied USB cable. The software can be used to monitor levels, operating temperature and other amplifier parameters while permitting full real-time control over all processor functions remotely. Using the optional LiNC interface and inexpensive Cat5 cable, systems of up to 256 amplifiers can be created.

SP series amplifiers offer many other premium features including XLR, TRS and Euroblock input connectors and NL4 and Euroblock output connectors. A magnetic circuit breaker, backlit LCD display, precision rotary encoders and metal control knobs further reinforce the attention to quality and the use of premium materials.

Equally capable in fixed installations and portable systems, the SP series is a perfect complement to any high performance loudspeaker system.

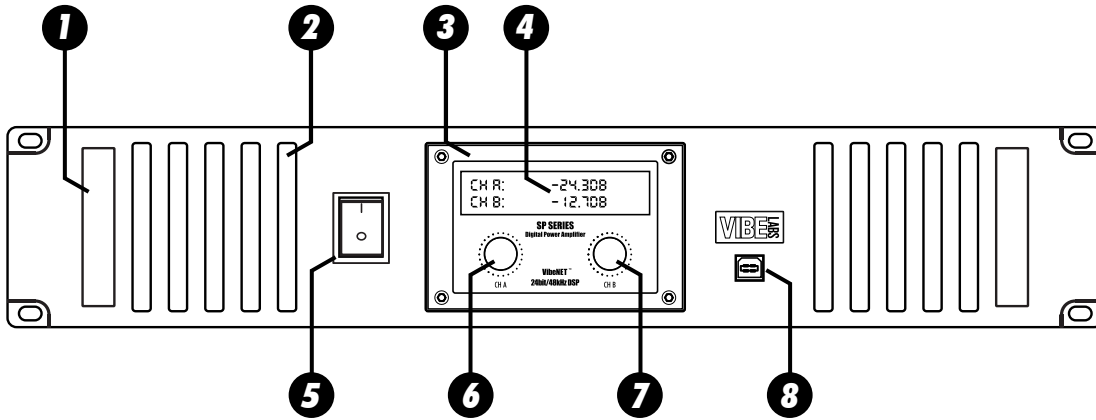
Features

- High performance Class D amplifiers
- Precision Digital Signal Processing
- Computer control and monitoring
- USB or Cat5 control over VibeNET™
- Includes VibeNET™ control software
- Dual Parametric Equalizers
- Asymmetrical Crossovers
- Fully variable Limiters
- Precision signal alignment Delay
- Remote monitoring of temperature
- Control up to 256 amplifiers
- LCD Multifunction display
- XLR/TRS and Euroblock inputs
- Euroblock output connector
- Automatic variable speed cooling fan
- Extensive protection circuitry
- Three Year Warranty
- High current toroidal power transformer
- AC circuit breaker for line protection
- Switchable 115/230 VAC power

Specifications	SP2000	SP4000
Continuous power at 8 Ohms	300W	500W
Continuous power at 4 Ohms	500W	1000W
Continuous power at 2 Ohms	1000W	1500W
Signal to Noise	104dB	106dB
Distortion (THD+N) 1kHz	< 0.01%	
20Hz - 20kHz Response	± 0.2dB	
Dynamic Range	117dB	120dB
Damping Factor	>450	>500
Crosstalk	> 80dB	
Parametric EQ	3 bands per channel ± 15dB	
Crossovers	BW 6/12/18/24/48dB LR 24/48dB Bessel 12dB	
Limiters	Variable Threshold, Attack, Hold, Decay	
Signal Delay	Up to 7ms per channel	
Thermal Management	Variable speed fan	
Input Impedance Bal./Unbal.	20k/10k Ohms	
Protection Circuitry	Short Circuit, Open Circuit, Thermal, Overload	
Compliance	FCC Part 15 CE, RoHS	
Dimensions HxWxD in (cm)	3.5x19x15 (9x48x38)	
AC Power Requirements	115/230 VAC 50/60Hz	
Shipping Weight lbs/kg	37/17	46/22
Net Weight lbs/kg	33/15	44/20

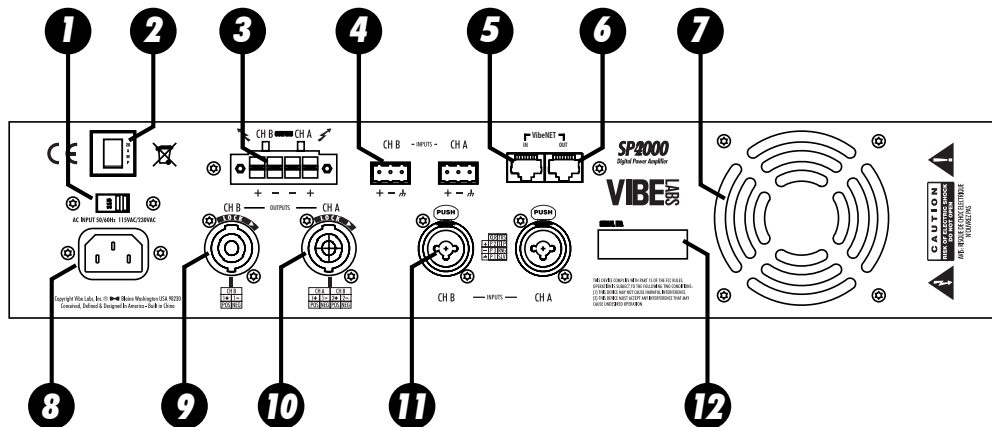
All specifications are subject to change without notice.

SP Series Spec Sheet Rev A



Front Panel

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|---|---|
| <ol style="list-style-type: none"> 1. Carrying handles. 2. Air vents – DO NOT BLOCK! 3. Display bezel. 4. LCD display screen. | <ol style="list-style-type: none"> 5. AC power switch. 6. Channel A Gain control / Setup controller. 7. Channel B Gain control / Setup controller. 8. USB connection point (to computer). |
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Rear Panel

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|---|---|
| <ol style="list-style-type: none"> 1. AC Voltage select switch. 2. Magnetic Circuit Breaker. 3. Euroblock speaker outputs. 4. Euroblock line level inputs. 5. VibeNET™ input jack (from computer). 6. VibeNET™ output jack (to next amplifier). | <ol style="list-style-type: none"> 7. Cooling fan grille – DO NOT BLOCK. 8. AC Input socket (IEC). 9. Channel B speaker output (NL4). 10. Channel A&B speaker output (NL4). 11. Combination XLR/TRS line inputs. 12. Serial Number label. |
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