OS-PWR
Two Channel Weatherproof Amplifier

The OS-PWR allows for a new level of flexibility in outdoor sound systems. A state of the art power supply and class D amplifier technology deliver unsurpassed sonic performance and long-term reliability while remaining compact and requiring only passive cooling.

DSP – Pre-Programmed selectible presets for OS Series Loudspeakers.

Weather Proof – Outdoor Rated cabinets.

High Power Output- 2500 Watts total RMS power.

Standard Connectors – XLR, Powercon and NL4 conncections.

APPLICATIONS

Pole-mounted audio solutions, distributed audio, theme-park entertainment, outdoor paging and anywhere centralized equipment rack is not possible.

2x 1,250 Watt
The two channel power amplifier provides 800 Watts at 4 Ohms and 450 Watts at 8 Ohms while providing pre-programmed presets for OS Series, Go2 and Nano products as well as the THMini15-EW subwoofer.

Marine Grade Enclosure
Our Marine Grade enclosure ensures 360° cooling via built-in sunshade and 2x universal mounting brackets enabling true 360° cooling around the outside of your enclosure. The included sunshade allows for additional natural temperature control and airflow, and the rain guard prevents water from collecting on the top of the door seals.

Sunshielding
The sunshield also acts like a heat sink by absorbing heat from within the enclosure and then dispersing it by colder air circulating past the top. In addition, the sunshield reflects the suns rays from hitting the top on the enclosure helping reduce additional sources of heat the interior of the enclosure.

Mounting
All OS-PWR modules come standard with (2) 16” universal mounting bracketsmade from 3/16” Aluminum. The offset design allows for a full 360° of airflow circulation, and keeps interior condensation at a minimum. Mount your enclosure easily to a wall, pole or other mounting options like Unistrut. With multiple pole banding slots users can mount enclosures anywhere even down to a 2.5” pole.

Rev. 20230508

Danley Sound Labs Inc.
2196 Hilton Drive, Suite E
Gainesville, GA 30501

danleysoundlabs.com | 877.419.5805

General Specifications

Amplifier topology	Class D
Number of channels	Two
Total power output, all channels driven	2,500 Watts RMS
Audio inputs	1x Analog
Digital Signal Processing	High performance DSP processing on all inputs and outputs

Power Output

Model	OS-PWR
Power specification	RMS output power per channel, all channels driven with continuous program material and a nominal ambient temperature of 40degC / 105degF
2-Ohm nominal load	1,250W
4-Ohm nominal load	800W
8-Ohm nominal load	450W
Bridged, per channel pair, 4-Ohm nominal load	2,500W
Bridged, per channel pair, 8 Ohm nominal load	1,600W
Bridged, per channel pair, 16 Ohm nominal load	900W

Audio Performanace

Amplifier topology	Proprietary High Efficiency Class D
Output Noise	-106dBA typical, Ref max output, 22KHz
Gain (with all DSP level controls set to 0dB)	27dB
Frequency response, 4 Ohm load	20Hz to 20KHz +/-0.5dB
Total harmonic distortion, THD	Less than 0.05% typical, 1kHz signal, -3dB output, 22KHz BW
Maximum analog input level	+20dBu
Analog input sensitivity range for full output	0dBu to +20dBu, continuously adjustable
Analog input and link	Input 10k Ohm, electronically balanced, link directly connected to analog input
Analog ground scheme	AES48 standard compliant
Slew Rate	80V/uS
Damping Factor	120 ref 8 Ohms
Efficiency	Greater than 90%, typical

Digital Signal Processing

Sample rate	96kHz throughout
Physical inputs to DSP	1x analog, inputs can be routed 1x2 to 2 DSP output modules
Input processing	Input signal routing, delay, gain, high pass filter, low pass filter, polarity. EQ: low shelf, 8x parametric, and high shelf filter
Output processing	Source, delay, gain, polarity, mute, high pass and low pass crossover filters, voltage based limiter EQ: low shelf, 6x parametric, and high shelf filters
End of Line monitoring	Impedance monitoring for each output, minimum and maximum values can be set to identify safe operating range

POWER SUPPLY

Type	High current, high frequency, switch mode
Efficiency	Greater than 90%, typical
Nominal mains input voltage range	85V to 240V Power supply automatically detects voltage and configures accordingly
Mains input frequency range	45Hz to 65Hz
Other features:	Automatic soft start
	Automatic brown out recovery
	Remote Shutdown
	Automatic overvoltage protection

Danley Sound Labs Inc.
2196 Hilton Drive, Suite E
Gainesville, GA 30501

danleysoundlabs.com | 877.419.5805