



XMAX2 Reference High Current Amplifier

The OSD Nero XMAX2 Stereo Power Amplifier was engineered for music enthusiasts and home theater listeners who demand uncompromising power, dynamic realism, and refined sonic performance. Combining high-current Class A/B amplification with premium internal components and precision construction, the XMAX2 delivers exceptional control, transparency, and musical accuracy across the entire audio spectrum. Designed to perform equally well in dedicated two-channel audiophile systems and high-performance home theater installations.

Key Technology

- 600 Watts RMS $\times 2$ into 8Ω (Both Channels Driven)
- 1000 Watts RMS $\times 2$ into 4Ω (Both Channels Driven)
- 1800 Watts RMS Bridged into 8Ω
- Fully Discrete High-Current Class A/B Architecture
- OSD DirectPath™ Fully DC-Coupled Audio Topology
- OSD PowerCore™ 2000 VA Toroidal Transformer
- OSD ReserveCap™ 200K Audio-Grade Capacitor Bank
- OSD CurrentDrive™ 22A Peak / 16A Continuous Output Stage
- Balanced XLR & Unbalanced RCA Inputs
- Built-In USB DAC — USB-C input, PCM up to 32-bit / 192kHz, driverless plug-and-play
- OSD Safe™ Multi-Layer Protection System
- 12V Trigger Integration

At the center of the design is the illuminated analog-style power meter —combining classic amplifier heritage with modern engineering performance. Whether reproducing delicate musical detail or explosive cinematic dynamics, the XMAX2 was built to deliver effortless power with precision and authority.



SPECIFICATIONS

Amplifier Class	Class A/B, fully discrete architecture
Output Power (8Ω, both channels driven)	600W RMS x 2 (1% THD); 550W RMS x 2 (0.1% THD)
Output Power (4Ω, both channels driven)	1000W RMS x 2 (1% THD); 880W RMS x 2 (0.1% THD)
Output Power (Bridged Mono, 8Ω)	1800W RMS (1% THD); 1600W RMS (0.1% THD)
Peak Power (10% THD)	680W x 2 @ 8Ω; 1200W x 2 @ 4Ω; 2400W bridged @ 8Ω
Output Devices	Five complementary pairs of NJW0281G/NJW0302G bipolar output transistors per channel (20 output devices total), 250V / 15A
Peak Output Current	22A Peak per channel
Continuous Output Current	16A RMS per channel; continuous 4Ω operation supported
THD+N	0.06% @ 1W; 0.03% @ 10W; 0.008% @ 100W (8Ω, 1kHz)
Output Noise	0.2mV (input terminated 600Ω, measured with Audio Precision)
Signal-to-Noise Ratio	117dB @ rated power, 8Ω (A-weighted)
Channel Separation	≥ 95dB @ rated power, 8Ω, 1kHz
DC Offset	< 0.5mV (no signal)
Damping Factor	≥ 500 @ 8Ω, 100Hz (output impedance 0.016Ω)
Frequency Response	10Hz–50kHz ±0.5dB; 10Hz–100kHz ±3dB
Voltage Gain	Selectable: 23dB or 29dB (applies to both RCA and XLR)
Input Sensitivity (rated power, 8Ω)	4.9V RMS @ 23dB gain; 2.45V RMS @ 29dB gain
Inputs	Balanced XLR x 2; unbalanced RCA x 2; USB-C (built-in DAC); rear-panel input selector
USB DAC	ComTrue CT7601SR USB 2.0 audio bridge; PCM 16/24/32-bit @ 44.1/48/96/176.4/192kHz; driverless (USB Audio Class) — Windows, macOS, iOS, Android
Outputs	Heavy-duty 5-way binding posts
Trigger	12V DC input / output, 3.5mm
Power Supply	2000VA low-noise toroidal transformer; 200,000µF total audio-grade filter capacitance
Signal Path	Fully DC-coupled signal path with active DC monitoring and relay-based loudspeaker protection
Protection	DC, over-current, thermal, and short-circuit
AC Power	120V / 240V AC, 50/60Hz, automatic voltage selection
Maximum Power Consumption	3150W maximum instantaneous AC input (bench test: both channels driven into fixed 4Ω loads, 1kHz sine, at maximum output). Typical music program draws far less — see note.
Circuit Breaker	20A / Reset Button
Front Panel	12mm brushed anodized aluminum
Heat Sink Mass	1.9kg per channel
Net Weight	63 lbs (28.5 kg)
Dimensions (W x D x H)	17 1/8" x 17 5/8" x 6 13/16" (w/ feet); 17 1/8" x 17 5/8" x 6 5/16" (w/o feet)
Warranty	5 Year Limited