



COOL-AMP S E R I E S

HIGH EFFICIENCY CLASS-D AMPLIFIERS

The ZypherLABS Cool-Amp Series Amplifiers are a turning point, and a breakthrough in the Indian Pro-Audio Industry.

The Cool-Amp series amplifiers are designed to work tirelessly in the Harsh operating environments in India - Hot Weather, Unstable Mains Voltage, & Overloaded Operation.

These Amplifiers outshine its rivals while driving high-current 2 ohms loads continuously, even in the hottest Indian weather.

The Cool-Amp Series by Zypher Labs is designed with a clear objective of a "No Compromise" High-Performance Audio, with Rock-Solid Reliability - 2 of the most important requirements for the demanding live sound touring applications.



ABOUT ZYPHER LABS

Zypher Labs is India's foremost Audio Amplification Technology Company. After over 5 years of extensive Research & Development, Zypher Labs has developed a host of Indigenous Amplification Technologies, ranging from Tube, Class-A, Class-AB, Class-G, Class-H, Class-TD & Class-D.

Our expertise lies in the field of High Efficiency and High Frequency circuits of Pulse Width Modulation (PWM) Amplifiers, Power Factor Correction (PFC) & Switch Mode Power Supplies (SMPS).

Zypher Labs today has its own World-Class Class-D technology, which is not available with any other company in Asia.

Zypher Labs today has the capability to make Amplifiers at par with the best in the world. We also have the capability to make the most powerful amplifiers in the world.

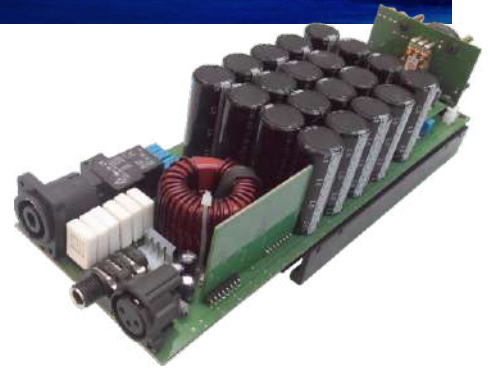
Zypher Labs is also the only Indian Amplification Company to exhibit at some of the Audio Industry's biggest International Shows such as Prolight+Sound Frankfurt (Germany), PALM Beijing & Guangzhou (China).

COOL-AMP SERIES FEATURES

- Very High-Efficiency (96%) Pulse Width Modulation (Class-D) technology almost eliminates cooling requirement. and allows continuous 2Ω operation in 45°C weather.
- Zypher Labs Patented FFT™ (Filtered Feedback Technology), & optimized layout to minimize switching noise, provides Sonic Performance which rivals High-End Class-A amplifiers with the efficiency of Class-D.
- The Cool-Amp series Amplifiers are Optimized for driving demanding 2Ω loads. These amps are "Built for 2Ω" not just "2Ω Stable".
- A three stage Speaker Protection system provides maximum possible protection to the speakers in the event of a fault.
- Full set of Amplifier Protections, including DC Offset, Short Circuit, Auto-Ramp, Soft Start, Thermal, Bus Pumping, Over-Current & Clip Monitoring.
- Low-Voltage operation down to 170v.
- Conventional Toroidal Transformer power supply increases reliability through simplicity, and allows large current draw without tripping.
- German Semiconductors, with double current headroom for increased reliability.



ADVANCED CLASS-D AMPLIFICATION



SPECIFICATIONS		CoolAmp #4	CoolAmp #5	CoolAmp #6	CoolAmp #7
Output Power Per Channel: 1kHz, 0.1% THD both channels driven	8 Ω	750	950	1280	1400
	4 Ω	1100	1600	2250	2500
	2 Ω	1850	2100	2600	3200
Input Sensitivity		2v			
Input Impedance		10k			
Slew Rate		20v/uS			
Distortion, SMPTE		0.1%			
Frequency response at 1 watt		20Hz – 30kHz		20Hz – 20kHz	
Damping Factor (8 Ω)		800			
Signal to Noise Ratio (SNR)		100dB			
Crosstalk		85dB			
Output Circuit Type		Class-D (Pulse Width Modulation)			
Controls		Front Level Control			
Connectors (Input)		XLR & 1/4" TRS Jack (Balanced)			
Connectors (Output)		2x NL4 Speakon			
LED Indicators		Power, Signal Bar Graph, Clip / Limit / Protect			
Cooling		2 x Variable Speed Fans, Front to Back Airflow			
Amplifier Protection		DC Offset, Short Circuit, Auto-Ramp, Soft Start, Thermal, Bus Pumping, Over Current and Clip Monitoring			
Speaker Protection		Cut-Off Relays on Speaker Outputs, AC Mains Fault Fuse, Post Capacitance Rail Fuses, DC Detect.			
Power Requirements (Nominal Voltage)		240v AC, 50Hz			
Operatig Voltage Range		170v AC to 260v AC			
AC Connection		1.5 M Mains Cord with Heavy Duty 16A Three-Pin Plug			
Weight		19.5kg	21.6kg	22.8kg	24.7kg
19 inch Rack Units		2U			
Dimensions (mm)	HxWxD	88mm x 483mm x 350mm (3.5in x 19in x 13.78in)			

Specifications are subject to upgradation & change without notice.



ZypherTM
LABS

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