iAC DSP Single and Two Channel Class-D Amplifiers

AMC iAC DSP Single and Two Channel Class-D Amplifiers Instructions

Contents

AMC iAC DSP Single and Two Channel Class-D Amplifiers

Specifications

Technical Specification	iAC 120 DSP	iAC 240 DSP	iAC 360 DSP	iAC 2X240 DSP
Output Power (100 V & 4 Ω)	1 x 120 W	1 x 240 W	1 x 360 W	2 x 240 or 1 x 480 W
Power Consumption	180 VA	360 VA	540 VA	720 VA
Standby Power Consumption	10 VA	10 VA	10 VA	20 VA
Power Supply	~ 230 V, 50 Hz	~ 230 V, 50 Hz	~ 230 V, 50 Hz	~ 230 V, 50 Hz
Outputs	1 x Phoenix power output, 1 x Phoenix audio link	1 x Phoenix power output, 1 x Phoenix audio link	1 x Phoenix power output, 1 x Phoenix audio link	1 x Phoenix power output, 1 x Phoenix audio link
Inputs	1 x Balanced Phoenix, 1 x Stereo RCA	1 x Balanced Phoenix, 1 x Stereo RCA	1 x Balanced Phoenix, 1 x Stereo RCA	1 x Balanced Phoenix, 1 x Stereo RCA
Optional: Dante Digital Audio	1 x RJ-45	1 x RJ-45	1 x RJ-45	1 x RJ-45
Frequency Response (100 V)	120 Hz – 20 kHz	120 Hz – 20 kHz	120 Hz – 20 kHz	120 Hz – 20 kHz
Frequency Response (4 Ω)	32 Hz – 21 kHz	31 Hz – 20 kHz	31 Hz – 20 kHz	35 Hz – 21 kHz
THD	0.07 %	0.20 %	0.25 %	0.16 %
S/N Ratio	95 dB	92 dB	98 dB	94 dB
Input Sensitivity	–	–	–	–
Input Impedance	Balanced: 11 kΩ, unbalanced 8 kΩ	Balanced: 11 kΩ, unbalanced 8 kΩ	Balanced: 11 kΩ, unbalanced 8 kΩ	Balanced: 11 kΩ, unbalanced 8 kΩ
Remote Control	RS-232	RS-232	RS-232	RS-232
Tone Control (over RS-232)	6-band parametric EQ	6-band parametric EQ	6-band parametric EQ	6-band parametric EQ
Cooling	Passive cooling	Forced air cooling with manual/auto control	Forced air cooling with manual/auto control	Forced air cooling with manual/auto control
Protection	Overcurrent, overtemperature, undervoltage	Overcurrent, overtemperature, undervoltage	Overcurrent, overtemperature, undervoltage	Overcurrent, overtemperature, undervoltage

Technical Specification	iAC 120 DSP	iAC 240 DSP	iAC 360 DSP	iAC 2X240 DSP
Dimensions (H x W x D)	44 x 430 x 245	88 x 430 x 342	88 x 430 x 342	88 x 430 x 342
Weight	5 kg	8 kg	9.4 kg	11.5 kg

Product Usage Instructions

1. **1. Power Connection**
   Ensure the amplifier is disconnected from the power source before making any connections. Connect the power cable to the designated power supply input on the amplifier.
2. **2. Input Connections**
   Connect your audio sources to the appropriate inputs on the amplifier. Use balanced Phoenix or Stereo RCA inputs based on your setup.
3. **3. Setting Up DSP Processing**
   Navigate the menu using the rotary controller and LCD display to access the DSP processing options. Configure settings such as parametric EQ, limiter, gate, and delay according to your audio requirements.
4. **Remote Control Integration**
   If desired, connect an RS-232 cable to enable remote control and status feedback. This allows for seamless integration into larger audio systems that can be controlled remotely.
5. **Cooling Management**
   For models that feature forced air cooling with manual/auto control, ensure proper ventilation around the amplifier to prevent overheating. Monitor the cooling system regularly for optimal performance.

Single and two channel Class-D amplifiers for 100 V and low impedance systems. Electronically controlled amplifier circuit, easy menu navigation with rotary controller and LCD display. Silent fan mode, DSP processing: 6-point parametric EQ, limiter, gate, delay. Balanced Phoenix & Stereo RCA inputs and audio link outputs. RS-232 port for full control and status feedback allows integrating iAC amplifiers into large and complex audio systems that can be automated or controlled remotely. iAC 2×240 DSP features internal input-output routing and bridging. All models are available with optional Dante card for use with digital audio network systems.

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FAQ

Q: Can I use the amplifiers with both 100V and low impedance systems?
A: Yes, the iAC amplifiers are designed to work with both 100V and low impedance systems for versatile audio setups.

Q: How do I know if the amplifiers are being protected against overcurrent or overtemperature?
A: The amplifiers have built-in protection mechanisms that will trigger in case of overcurrent, overtemperature, or undervoltage situations. Check the status feedback via RS-232 for alerts.

Q: What is the purpose of the optional Dante card?
A: The optional Dante card allows you to use the amplifiers with digital audio network systems for enhanced connectivity and flexibility in audio setups.

Documents / Resources

	AMC iAC DSP Single and Two Channel Class-D Amplifiers [pdf] Instructions iAC 120 DSP, iAC 240 DSP, iAC 360 DSP, iAC 2X240 DSP, iAC DSP Single and Two Channel Class-D Amplifiers, iAC DSP, Single and Two Channel Class-D Amplifiers, Two Channel Class-D Amplifiers, Class-D Amplifiers, Amplifiers

References

- User Manual