

# XD Series

## XD Series Class D Amplifier



### Applications

- Touring Sound
- Premium Installations

### Products in the Series

- XD 41
- XD 22
- XD 21

### Features

- Direct 10/70v Drive.
- Four channels of efficient Class D amplification.
- Very high power density in 2U rack height.
- Up to 8,000 Watts total power output, depending on load impedance
- Switch mode power supply
- Global mains operation, 85V to 240V auto-sensing
- Compact 2RU design
- Comprehensive protection and monitoring functions
- Versatile multi-channel amplification for BA loudspeaker systems

The XD Series is an advanced Class- D Amplifier with 2 Channel & 4 Channel Variants which combines very high power density with superb audio performance, Low AC Current Draw and The M2 Module for Active PFC in the Input & Output stage the XD can also provide multi-channel amplification across the British Acoustics loudspeaker range.

The XD a full 8000 watts per channel into 4 ohms with all channels driven while remaining highly efficient. Its high efficiency reduces the energy drawn from the mains supply and ensures the power reserves needed to deliver superb sound under arduous live conditions.

The XD Series employs comprehensive protection functions to maintain safe operating conditions of both the amplifier and the loudspeakers driven — including a sophisticated loudspeaker limiter suite which incorporates peak, RMS and excursion limiting, as well as multiband limiting for passive 2-way systems.

Acoustic Specification	XD 41	XD 22	XD 21
<b>(Stereo Mode, All channels driven)</b>			
No. of Channels	4	2	2
Rated Power / Channel (8 Ω)	1500W	1800W	1500W
Rated Power / Channel (4 Ω)	2500W	3000W	2500W
<b>Bridged Mode</b>			
<b>(Mono)</b>			
Bridged Power at 8 Ohms	3000W	3600W	3000W
Bridged Power at 4 Ohms	5000W	6000W	5000W
<b>Audio Specifications</b>			
Signal to Noise Ratio (1 kHz, 8 Ohms)	-100 dB	-100 dB	-100 dB
THD	< 0.02% THD / 4ohms and 8 ohms		
Damping Factor	> 1050	> 1050	> 1050
Controls	Sensitivity Selection & Stereo, Bridge, Parallel Switch		
AC Power Input	Universal power supply 100 - 240 VAC, 50 - 60 Hz		
<b>Aesthetic</b>			
Enclosure	XD 41	XD 22	XD 21
Finish	Ultra-Light Weight Steel Chasis		
Mounting System	Glossy Phantom Black Metallic Finish		
	19" Standard Rack Mount Ears		
<b>Power Draw &amp; Thermal Dissipation</b>			
<b>(Standby Mode)</b>			
Nominal Voltage	85 VAC - 240 VAC , 47 Hz - 63 Hz		
Nominal Frequency	50 Hz		
AC mains Power Draw (watts)	60		
Current Draw (Amps) - 120V ac	1.0		
Current Draw (Amps) - 230V ac	0.5		
Thermal Dissipation - Watts	60		
Thermal Dissipation - Kal / hr	52		
Thermal Dissipation - Btu/hr	205		

XD 41					
Load (ohms)	4	4	8	8	
Signal Duty & Crest Factor	1/4, cf = 2.8 (9dB)	1/8, cf = 4.0 (12dB)	1/4, cf = 2.8 (9dB)	1/8, cf = 4.0 (12dB)	
Input power (watts)	2500	1500	1550	750	
Current Draw (amps) 120V	31.6	20	33.1	18.5	
Current Draw (amps) 230V	16.5	10.4	17.3	9.6	
Thermal Dissipation watts	467	367	325	317	
Thermal Dissipation Kcal / hr	401	315	279	272	
Thermal Dissipation Btu / hr	1592	1251	1109	850	
XD 22					
Load (ohms)	4	4	8	8	
Signal Duty & Crest Factor	1/4, cf = 2.8 (9dB)	1/8, cf = 4.0 (12dB)	1/4, cf = 2.8 (9dB)	1/8, cf = 4.0 (12dB)	
Input power (watts)	3000	1800	1850	790	
Current Draw (amps) 120V	38.8**	19.7	19.2	11.5	
Current Draw (amps) 230V	20.3	10.3	10.0	5.8	
Thermal Dissipation watts	475	280	250	225	
Thermal Dissipation Kcal / hr	408	241	215	193	
Thermal Dissipation Btu / hr	1621	955	853	720	
XD 21					
Load (ohms)	4	4	8	8	
Signal Duty & Crest Factor	1/4, cf = 2.8 (9dB)	1/8, cf = 4.0 (12dB)	1/4, cf = 2.8 (9dB)	1/8, cf = 4.0 (12dB)	
Input power (watts)	2500	1500	1550	750	
Current Draw (amps) 120V	21.1	11.5	19.2	11.5	
Current Draw (amps) 230V	11	6	10.0	6	
Thermal Dissipation watts	280	220	195	190	
Thermal Dissipation Kcal / hr	241	189	168	163	
Thermal Dissipation Btu / hr	955	751	665	648	
Dimensions	XD 41		XD 22		XD21
Height	3.5" (2 RU)				
Width	19" Rack Mount				
Depth	17.5"				
Weight	14.8 Kgs				