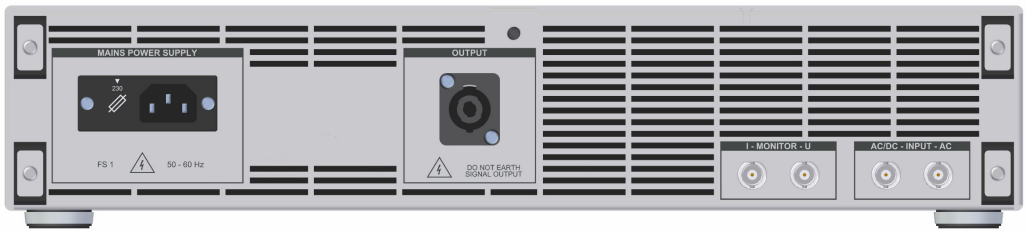
BAA 500 BEAK V4_230V

Power Amplifier



Applications

- Power amplifier for modal testing shaker
- Power amplifier for environmental testing systems

Range of Use

- Research and development departments in industry
- Environment testing laboratories
- Universities and research institutes

Features

- Frequency range DC...200 kHz
- High reliability operation
- Switch between Voltage and Current Mode
- Phase Shift (0° or 180°)
- Variable Gain Control
- Current Limit Control
- Temperature Protection
- Multifunction OLED Display

Description

The Power Amplifier Type BAA 500 BEAK V4-230V has been developed to drive any type of exciter requiring a 500 VA power amplifier with a load impedance of 4 Ohm. It has a useable frequency range from 20 Hz to 60 kHz at full power or from DC to 200 kHz small signal; the harmonic distortion is hereby very small.
The power amplifier can tolerate temperature and supply line variations while maintaining excellent stability.
Thereby, the product can be used as a voltage generator with low output impedance and a flat voltage frequency response, or as a current generator with high output impedance and a flat current frequency response.
The maximum RMS output-current limit is adjustable. (ACA option)
For standard application, we recommend using the product in voltage mode.

BAA 500 BEAK V4_230V

Power Amplifier

Technical Data

General			
Power Output max	500 VA into a 4 Ohm resistive load		
Frequency Range	DC… 60 kHz		
	60 kHz… 200 kHz	small signal (-20 dB)	
Output Voltage max	45 V RMS		
Output Current max	5 A	DC	
	9 A RMS	0,1 Hz… 20 Hz	
	11 A RMS	20 Hz… 20 kHz	
	9 A RMS	20 kHz… 40 kHz	
	8 A RMS	40 kHz… 60 kHz	
Input Voltage	< 5 V		
Input Impedance	> 10 kOhm		
Power Supply	230 V ± 5 %, 50 Hz / 60 Hz single phase, AC mains supply, 1070 VA power consumption		
Monitor Output	Voltage Monitor	0.1 V/V ± 3 %	0.1 Hz… 60 kHz
	Current Monitor	0.1 V/A ± 3 %	0.1 Hz… 60 kHz
Dimensions	With	482 mm (19 in), with flanges standard 19" rack	
	Height	88 mm, corresponds to 2 HU	
	Depth	290 mm	
Weight	18 kg		
Bandwidth Voltage Mode			
Frequency Range	DC… 60 kHz		
	60 kHz… 200 kHz	small signal (-20 dB)	
Gain	Nominal	18 V/V	
	± 0.5 dB	0.1 Hz… 60 kHz	
	± 3 dB	60 kHz… 200 kHz	
Total Harmonic Distortion	< 0,1 %	40 Hz… 5 kHz	
	< 0.2 %	5 kHz… 20 kHz	
	< 4 %	20 kHz… 60 kHz	
	< 0.2 %	60 kHz… 200 kHz -20dB	
Signal-to-Noise Ratio	> 100 dB (full power, -0.5 dB)		
Bandwidth Current Mode			
Frequency Range	DC… 50 kHz @ 4 Ohm resistive load		
	50 kHz… 80 kHz @ 4 Ohm resistive load		small signal (-20dB)
Gain	Nominal	4.4 A/V	
	± 0.5 dB	DC… 15 kHz @ 4 Ohm resistive load	
	± 3 dB	15 kHz… 50 kHz @ 4 Ohm resistive load	
Total Harmonic Distortion	< 0,2 %	40 Hz… 5 kHz	
	< 0.8 %	5 kHz… 20 kHz	
	< 2 %	20 kHz… 50 kHz	
Signal-to-Noise Ratio	> 90 dB (full power, -0.5 dB)		

All data are subject to change without notice

Jan 22