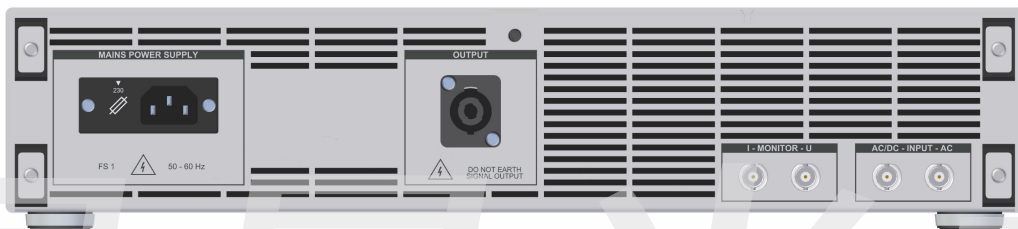
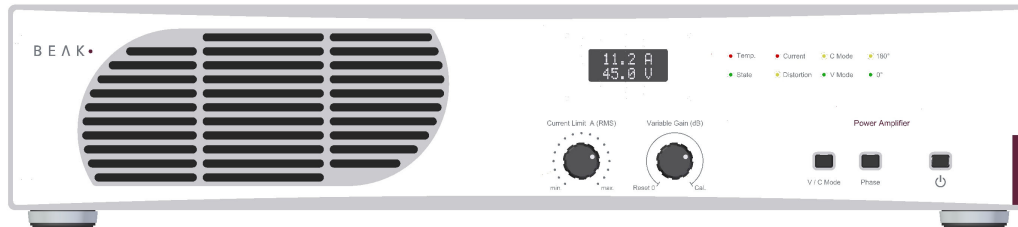


BAA 500 BEAK V4_230V

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 | small signal (-20 dB) | |
| | 60 kHz... 200 kHz | | |
| 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 \pm 5 %, 50 Hz / 60 Hz single phase, AC mains supply, 1070 VA power consumption | | |
| Monitor Output | Voltage Monitor | 0.1 V/V \pm 3 % | 0.1 Hz... 60 kHz |
| | Current Monitor | 0.1 V/A \pm 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 | small signal (-20 dB) | |
| | 60 kHz... 200 kHz | | |
| Gain | Nominal | 18 V/V | |
| | \pm 0.5 dB | 0.1 Hz... 60 kHz | |
| | \pm 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 | small signal (-20dB) | |
| | 50 kHz... 80 kHz @ 4 Ohm resistive load | | |
| Gain | Nominal | 4.4 A/V | |
| | \pm 0.5 dB | DC... 15 kHz @ 4 Ohm resistive load | |
| | \pm 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