







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

Description

The Power Amplifier Type PA14-180 has been developed to drive any type of exciter requiring a 180 VA power amplifier. It has a useable frequency range from 40 Hz to 10 kHz at full power or from DC to 100 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. For standard application, we recommend using the product in voltage mode.



Technical Data

180 VA into a 0.8 Ohm	resistive load
Full power Small signal (-20 dB)	40 Hz10 kHz DC100 kHz
12 V RMS	
5 A RMS 12 A RMS 15 A RMS 12 A RMS	DC10 Hz 10 Hz40 Hz 40 Hz10 kHz 10 kHz15 kHz
< 5 V	
> 10 kOhm	
	$V \pm 5$ %, 50 Hz / 60 Hz by adjusting the fuse, single y, 580 VA power consumption
Voltage monitor Current monitor	0.1 V/V ± 3 %, 5 Hz15 kHz 0.1 V/A ± 3 %, 5 Hz15 kHz
Width Height Depth	482 mm (19 in), with flanges standard 19" rack 88 mm (3.5 in), corresponds to 2 U 450 mm (17.7 in)
14 kg (31 lb)	
Full power Small signal (-20 dB)	40 Hz10 kHz DC100 kHz
Nominal ± 0.5 dB ± 3 dB	5 V/V 20 Hz10 kHz 10 kHz100 kHz
< 0.1 % < 0.2 %	40 Hz 5 kHz, full power 5 kHz10 kHz, full power
> 90 dB (full power, -0.5	5 dB)
Full power Small signal (-20 dB)	40 Hz10 kHz DC100 kHz
± 0.5 dB ± 3 dB	20 Hz10 kHz 10 kHz100 kHz
< 0.2 % < 0.8 %	40 Hz2 kHz, full power 2 kHz10 kHz, full power
> 90 dB (full power, -0.5 dB)	
	Full power Small signal (-20 dB)12 V RMS5 A RMS12 A RMS12 A RMS12 A RMS12 A RMS2 A RMS $< 5 V$ > 10 kOhm100 V or 120 V or 230 V phase, AC mains suppledVoltage monitor Current monitorWidth Height Depth14 kg (31 lb)Full power Small signal (-20 dB)Nominal $\pm 0.5 dB$ $\pm 3 dB$ < 0.1 % < 0.2 %