



PHONTECH Communication Systems

Power Amplifier 1670



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PUBLIC ADDRESS & ALARM SYSTEM

The AMP 1670 is a high performance, high efficiency 400 watt power amplifier designed to meet the needs of the most demanding PA/GA applications. The amplifier is designed to operate from a 48VDC power supply. It is only 1U high, weighs only 6.5kg and power consumption is only 480W at rated power output. Quiescent power consumption is also very low, at less than 5W.

Inputs and Outputs

The AMP 1670 features two balanced line level inputs, normal and priority. The AMP 1670 provides one 100 volt line output.

Controls and Metering

The front panel consists of a recessed power switch and recessed screwdriver adjustable controls for adjustment of the optional line surveillance board. The front panel of the AMP 1670 includes a LED dB meter, Power status led, amplifier protection and line surveillance status leds.

Protection

The AMP 1670 features a slow start function as well as overload and overdrive protection. Should the amplifier be overdriven, a current limiter will protect the unit, and in a worst case scenario the amplifier will shut down until the problem is resolved. Once the problem is fixed (shorted speaker line, or overdriven input), the amplifier will automatically reset and continue operation. The AMP 1670 features internal heatzink with fan cooling. The fan will start to turn if the operating temperature exceeds 40°C, and turn at full speed at 50°C. The amplifier will protect itself at 90°C and resume operation when the temperature has dropped to 70°C. The fan exhaust is in the rear of the amplifier, and the air inlet is in the front.

SPECIFICATION

Power Output:	400 Watts RMS into 100 Volt line
Maximum Load:	25 Ohms @ 100V
Frequency Resp.:	200Hz - 15kHz (ffl 3dB) into 100V
THD:	Less than 0.5% @ 1kHz
Distortion at Max Power:	Less than 1%
Signal To Noise Ratio:	-90dB
Input Sensitivity:	0.775Vrms (0dBu)
Input Impedance:	22K Ohms
Output:	100 Volts line
Metering/Indicators Amp Status:	LED output meter Power supply LED Protection LED
Power Source:	48VDC nominal (40-64V)
Power Consumption:	480 Watts (max)
Power Consumption quiescent:	5W
Dimensions:	44mm H x 483mm W x 320mm D
Weight:	6,5 kg



Other Features:

- Zone selection: It is possible to disconnect the load and mute the amplifier to provide zone selection.
- It is possible to install the optional PHONTECH Line Surveillance board to monitor both amplifier operation and line condition.
- The amplifier can be muted via a mute input.
- It is possible to choose which line input is to operational.
- Hot pluggable for fast and easy field replacement.
- Protection Internal Cooling Fan with temperature sensor
- Current Limiter with auto protect and auto reset Controls: Front Panel Power Switch, Recessed front panel

Agent/Distributor:

Jotron Phontech AS reserves the right to change the design and/or specifications at any time without prior notice. Reservations are also taken towards any general errors that may occur.

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