4000016599BASIC
1670 Power Amplifier

🔊 **Exigo**

🚢 **Onboard communication**

- 19" 1HU* rack mounting
- Low weight
- Low power consumption
- 400W / 100V line output
- Hot pluggable for fast and easy field replacement
- Protection by internal cooling fan with temperature sensor
- Current limiter with auto protect and auto reset controls (front panel power switch, recessed front panel)
- Monitoring amplifier operation and line condition (optional Line Surveillance board or Loudspeaker Monitoring Systemboard)
- IEC 60945 Marine Equipment, IEC60950 Safety
- DNV GL type approval and compliant with NORSOK

DESCRIPTION

1670 Power Amplifier

The Phontech 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 1HU* 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.

*) Installation in 6HU amplifier enclosure necessary. Enclosure can mount up to 6 pcs. 1670 amplifiers.

Inputs and outputs

The Phontech 1670 features balanced line level inputs. The power amplifier 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 Phontech 1670 includes a LED dB meter, Power status led, amplifier protection and line surveillance status leds.

Protection

The Phontech 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 Phontech 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.

SPECIFICATIONS

MECHANICAL

Dimensions	19" 1HU* rackmount (307 mm depth, excluding handle)
Weight	6.5 kg
Color	RAL 9006
Material	Steel
Mounting	Rack
Fixing	2 x M5 bolts
Access	Front
Cable Entry	Rear

ELECTRICAL

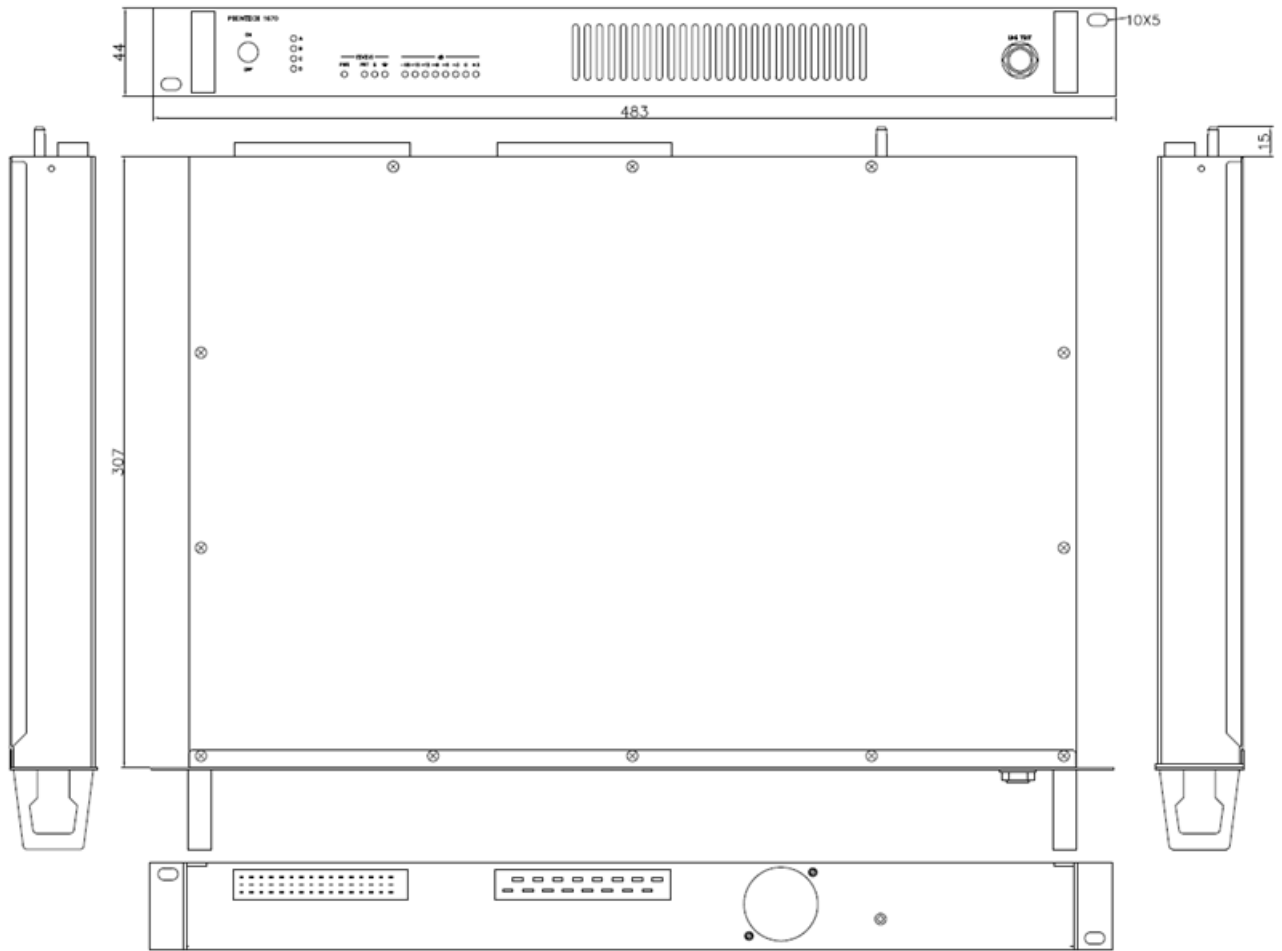|	
Power Supply	48VDC nominal (40-64V)
Power Consumption	480W (max), 5W quiescent
Heat Dissipation	100 W
Power Output	400W continuous RMS
Frequency Response	200Hz-15kHz (ffl 3dB) into 100V
THD	<0.5% at 1kHz
Signal to Noise Ratio	<90 dB
Input Sensitivity	0.775 Vrms (0 dBu)
Input Impedance	22k Ω
Metering/Indicators Amp Status	LED output meter, power supply LED, protection LED
Output	100V line
Maximum Load	25Ω at 100V
Distortion at max power	<1%

ENVIRONMENTAL

Temperature	-15°C to +55°C
Humidity	+93% (at +40°C)
Ingress Protection Rating	IP-20

PRODUCT OPTIONS

4000085164	1670 LINE SURVEILLANCE BOARD
4000018581	1670 LMS SURVEILLANCE BOARD

www.zenitel.com info@zenitel.com

TECHNICAL DIMENSIONS

USED WITH

1023000000

ESC1

Exigo System Controller

www.zenitel.com   info@zenitel.com