

Technical data sheet

1671 Power amplifier

Art. no 19611



DESCRIPTION:

The 1671 is a high performance, high efficiency 250W power amplifier designed to meet the needs of the most demanding PA/GA applications in marine environments. The amplifier is designed to operate from dual AC or AC+DC power supply.



FEATURES:

- 19" 1U rack mounting
- Low weight
- Low power consumption
- Two balanced audio inputs. Line level XLR with output loop, Configurable E&M input
- 250W / 100V line output
- Failure status output NO/NC
- Speaker/line level overvoltage protection
- Short circuit/current limit protected
- Status reporting via MPA 1600 (RCMS/SNMP interface)



ELECTRICAL SPECIFICATIONS:

Power supply	110-230VAC and 18-32VDC
Power consumption	300W (max), 5W quiescent
Heat dissipation	50W
Power output	250W continuous RMS (500W short term, 1s)
Maximum load	40Ω at 100V
Frequency resp.	300Hz-7kHz power bandwidth
THD @250W	<0.5% at 1kHz
Signal to noise ratio	>90dB
Input sensitivity	0.775Vrms (0dBu)
Input impedance	22k Ω
Output	100V line
Metering/indicators amp status	VU meter LED, PSU status LED, Global Failure LED

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ENVIRONMENTAL SPECIFICATIONS:

Temperature	-15°C to +55°C
Humidity	+93% (at +40°C)
Protection	IP20

MECHANICAL SPECIFICATIONS:

Dimension (WxHxD)	19", 1U rackmount (272mm depth, excl. handle)
Weight	5.5kg
Material	Steel
Colour	RAL 9006
Mounting	Rack
Fixing	4 pcs M5 bolts
Access	Front
Cable entry	Rear
Manufacturer	Jotron AS

CERTIFICATES / COMPLIANCES:

IEC 60945 Marine equipment, IEC60950 Safety
The unit has a DNVGL type approval and is also compatible with NORSOK.

PRODUCT RELATED TO:

MPA 1600	Public Address and General Alarm system
PAGA 1700	Public Address and General Alarm system
Compact MPA	Public Address and General Alarm system

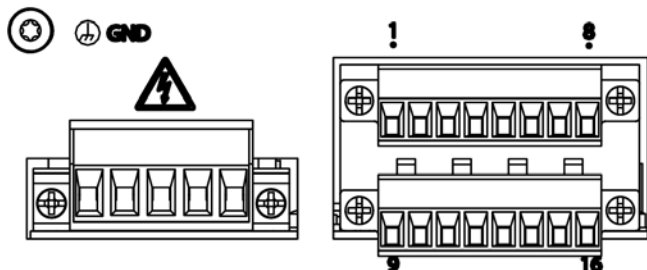
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External connections:



Audio output

1	Standby In_1/OutputB_1	Standby amplifier input
2	Standby In_2/OutputB_2	
3	OutputA_1	Amplifier output
4	OutputA_2	
5	Chassis_GND	

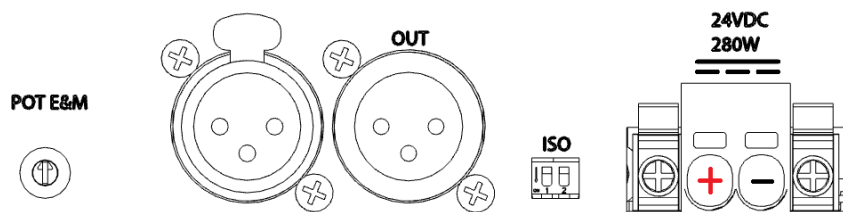
Amplifier I/O

1	485+	Modbus monitoring interface
2	485-	
3	485_GND	
4	Key_in	E&M Key
5	Audio/Key_GND	E&M Key GND
6	Audio+	E&M audio input
7	Audio-	
8	I/O_1	Not in use
9	I/O_2	
10	Iso_in_+	
11	Iso_in_-	
12	Fail relay NO	Amplifier failure relay
13	Fail relay C	
14	Fail relay NC	
15	Power_out_+ Fused 1.5A	MPA 24v power output
16	Power_out_GND Fused 1.5A	MPA GND power output

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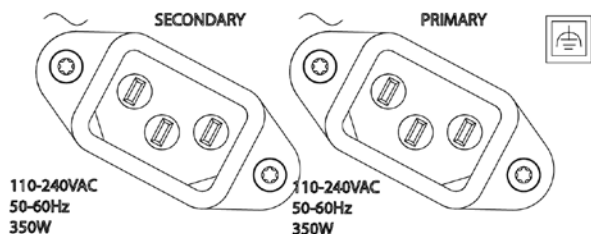


There is a potentiometer for gain adjustments of the E&M input. There is also an XLR ground lift switch that can be used to isolate the XLR ground pin from the 24V negative power input.

ISO-switch	
1	XLR GND is connected to amplifier GND
0	XLR GND is disconnected from the amplifier GND

There is an audio input loop consisting of a male and female XLR connector where the signal could be passed through the amplifier.

There is a 24V, 40A backup power input that is used when the amplifier loose AC input.



The amplifier has dual AC power inputs (110-240VAC 60-60Hz) where the amplifier will automatically switch to secondary if no power is present at the primary input.

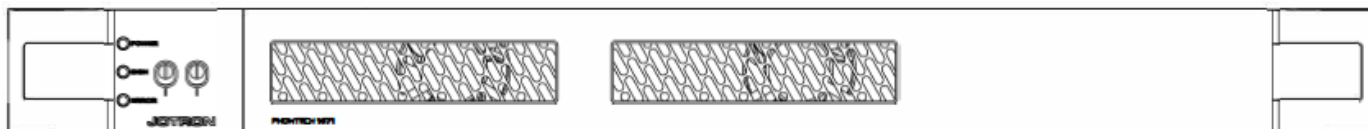
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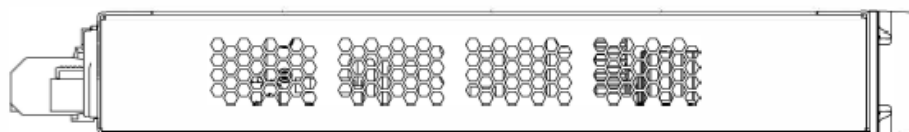
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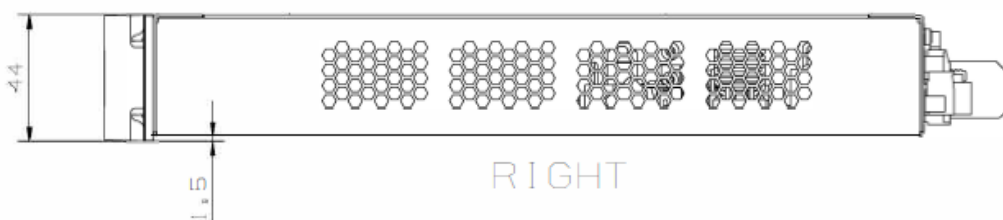
DIMENSION / LAYOUT



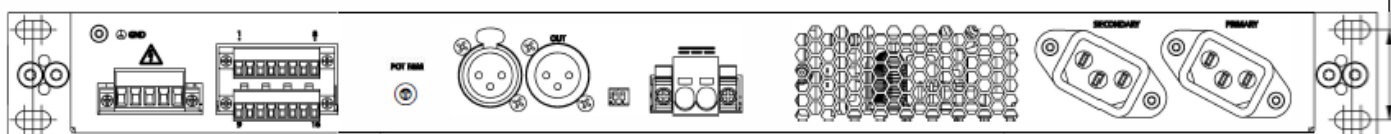
FRONT



LEFT



RIGHT



BACK

465 ± 1,6

4 x M5 mounting screws,
low head