

Appendix C: Technical Info

Specifications

Continuous Sine Wave Average Output Power, per channel, both channels driven, 20 Hz to 20 kHz

	FRS•1300	FRS•1700	FRS•2800
2 ohms:	650 W	830 W	1300 W
4 ohms:	420 W	540 W	850 W
8 ohms:	235 W	310 W	500 W

Bridged Mono Operation, 20 Hz to 20 kHz

	FRS•1300	FRS•1700	FRS•2800
4 ohms:	1300 W	1660 W	2800 W
8 ohms:	840 W	1080 W	1700 W

Note: Power ratings are specified at 240 VAC line voltage.

Power Bandwidth

5 Hz to 50 kHz (+0, -3 dB)

Frequency Response

20 Hz to 25 kHz (+0, -1 dB)

Distortion

THD and SMPTE IMD; 20 Hz to 20 kHz
< 0.03 % @ 8 ohms

Signal-to-Noise Ratio

> 105 dB below rated power into 4 ohms

Channel Separation

> 68 dB @ 1 kHz

Damping Factor

> 300 @ 1 kHz and below, into 8 ohms

Input Impedance

20 k Ω balanced
10 k Ω unbalanced

Input Sensitivity

1.15 V (+3.4 dBu) for rated power into 4 ohms

Gain

FRS•1300:	32 dB
FRS•1700:	33 dB
FRS•2800:	35 dB

Maximum Input Level

9.75 Vrms (+22 dBu)

Turn On Delay

2.5 seconds

Subsonic Filter

- 9 dB @ 30 Hz

Topology

FRS•1300, FRS•1700: Class AB
FRS•2800: Class H

Cooling

Variable-speed fans with back-to-front airflow

Indicators

SIG (Signal Present) on each channel
OL (Overload) on each channel
Signal Meters -3 dB, -6 dB, -9 dB. -20 dB on each channel
Power LED on power switch

Current Consumption (measured at 240 VAC line voltage)

	FRS•1300	FRS•1700	FRS•2800
Idle	0.4 A	0.5 A	0.6 A
Musical Program:			
@ 8 ohms	4.0 A	5.3 A	8.4 A
@ 4 ohms	6.0 A	7.4 A	10.8 A
@ 2 ohms	8.2 A	11.4 A	18.3 A

AC Power Requirements

U.S. model: 100–120 VAC, 50–60 Hz
European model: 200–240 VAC, 50–60 Hz

Physical Dimensions and Weight

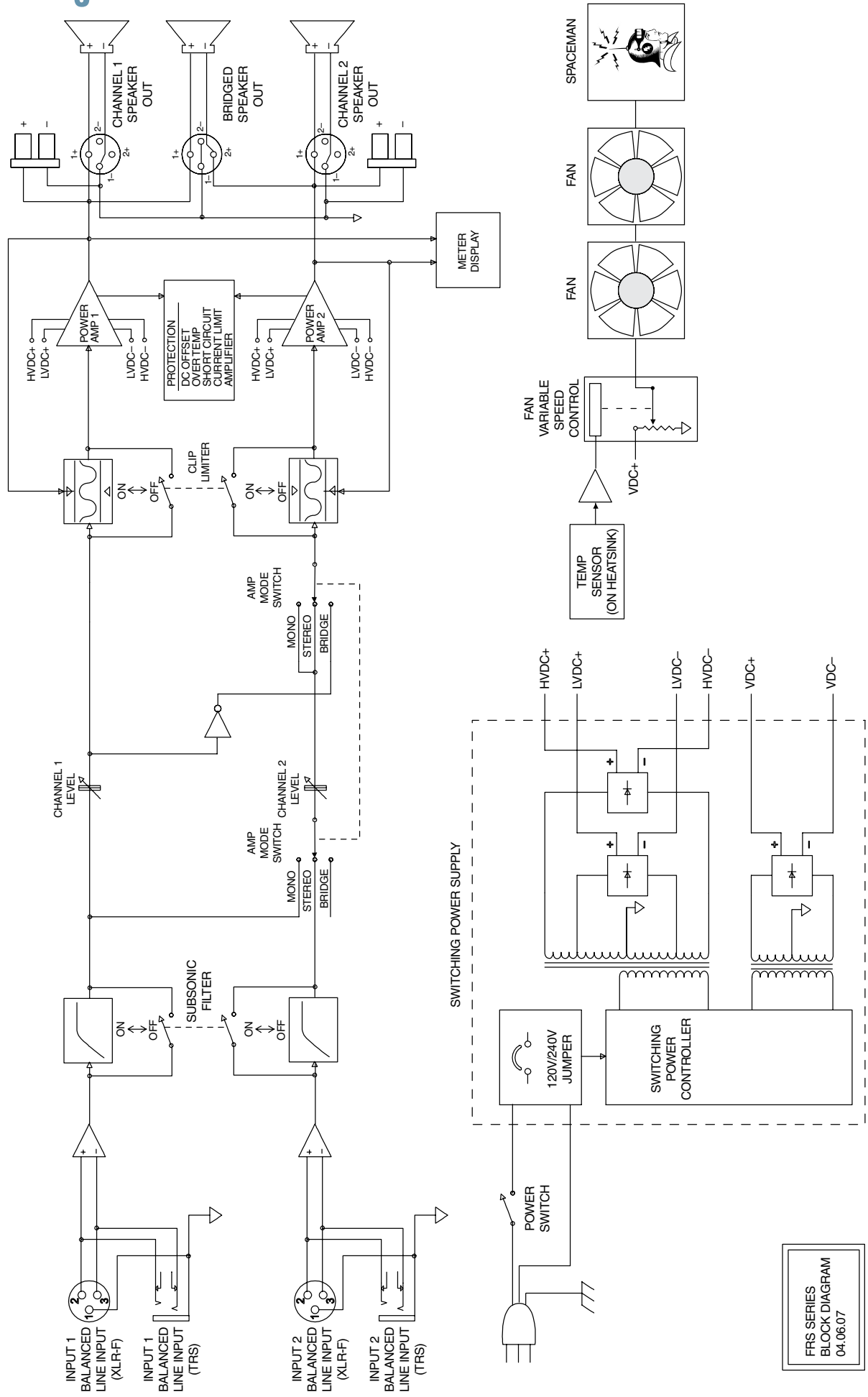
Height:	3.50 in/ 89 mm
Width:	19.00 in/ 483 mm
Depth:	14.65 in/ 372 mm
Depth with Handles:	16.15 in/ 410 mm
Weight:	
FRS•1300:	21.0 lb./ 9.5 kg
FRS•1700:	21.5 lb./ 9.7 kg
FRS•2800:	22.0 lb./ 10.0 kg
Flavor:	Slightly minty

LOUD Technologies Inc. is always boldly striving to improve our products by incorporating new and improved materials, components, and manufacturing methods. Therefore, we reserve the right to change these specifications at any time without notice.

“Mackie,” and the “Running Man” are registered trademarks of LOUD Technologies Inc. All other brand names mentioned are trademarks or registered trademarks of their respective holders, and are hereby acknowledged.

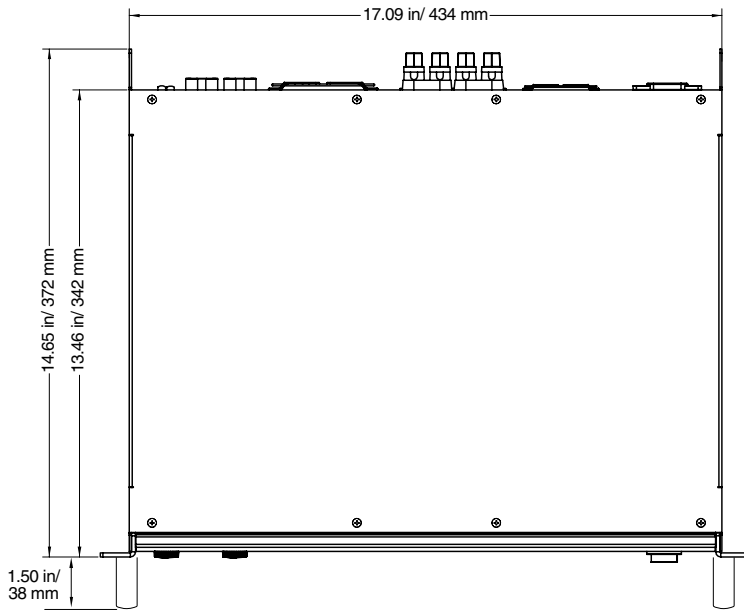
©2007-2008 LOUD Technologies Inc. All Rights Reserved.

Block Diagram



FRS SERIES
BLOCK DIAGRAM
04.06.07

Dimensions



FRS-1300
WEIGHT
21 lbs.
(9.5 kg)



FRS-1700
WEIGHT
21.5 lbs.
(9.7 kg)



FRS-2800
WEIGHT
22 lbs.
(10 kg)

