



RMS AMPLIFICATION TECHNICAL SPECIFICATIONS

MODELS	RMS-425Ki	RMS-45Ki	RMS-10K	RMS-14K	RMS-20K
Total Frame Output Power	2500 W	5000 W	10000 W	14000 W	20000 W
Per Channel Output Power (All channels Driven, vs Single Channel)					
2 Ohm	4x 430 W/ 1x 312 W	4x 1250 W/ 1x 1250 W	4x 2500 W/ 1x 2500 W	4x 3500 W/ 1x 3500 W	4x 5000 W/ 1x 5000 W
2.67 Ohm	4x 430 W/ 1x 430 W	4x 1250 W/ 1x 1700 W	4x 2500 W/ 1x 3300 W	4x 3500 W/ 1x 4700 W	4x 5000 W/ 1x 6700 W
4 Ohm	4x 625 W/ 1x 625 W	4x 1250 W/ 1x 2500 W	4x 2500 W/ 1x 2500 W	4x 3500 W/ 1x 3750 W	4x 5000 W/ 1x 6000 W
8 Ohm	4x 625 W/ 1x 1250 W	4x 1250 W/ 1x 1250 W	4x 1250 W/ 1x 1300 W	4x 1800 W/ 1x 1900 W	4x 2500 W/ 1x 3000 W
4 Ohm Bridged	2x 625 W	2x 2500 W	2x 5000 W	2x 7000 W	2x 10,000 W
8 Ohm Bridged	2x 1250 W	2x 2500 W	2x 5000 W	2x 7000 W	2x 10,000 W
Hi-Z 100V	4x 625 W/ 1x 1250 W	4x 1250 W/ 1x 2500 W	4x 2500 W/ 1x 2500 W	4x 3500 W/ 1x 4200 W	4x 5000 W/ 1x 5000 W
Hi-Z 70V	4x 625 W/ 1x 900 W	4x 1250 W/ 1x 1800 W	4x 2500 W/ 1x 2500 W	4x 2950 W/ 1x 2950 W	4x 3500 W/ 1x 3500 W
Hi-Z 50V	4x 625 W/ 1x 900 W	4x 1250 W/ 1x 1800 W	4x 1700 W/ 1x 2200 W	4x 2100 W/ 1x 2700 W	4x 2500 W/ 1x 3200 W
Hi-Z 35V	4x 450 W/ 1x 800 W	4x 900 W/ 1x 1600 W	4x 1250 W/ 1x 2000 W	4x 1500 W/ 1x 2500 W	4x 1800 W/ 1x 3000 W
Maximum Output Voltage	150 Vpeak	150 Vpeak	150 Vpeak	189 Vpeak	235 Vpeak
Maximum Output Current	18 Apeak	36 Apeak	50 Apeak	59 Apeak	71 Apeak
Total Harmonic Distortion (%)	< 0.05%	< 0.05%	< 0.05%	< 0.05%	< 0.05%
Crosstalk (20Hz - 1kHz), typical			>70dB		
Voltage Gain			26dB to 44dB		
SNR			111 dBA		
Operating Voltage (50-60Hz)			90V - 265V AC		
1/8 Rated Power @230V, 4 ohm load	2.1 A	3.7 A	7.3 A	10 A	14 A
1/8 Rated Power @120V, 4 ohm load	4.0A	7.2A	14A	19.2A	26.8A
Dimensions (In) Rectangular Chassis	19 x 3.5 x 13	19 x 3.5 x 13	19 x 3.5 x 13	19 x 3.5 x 14.5	19 x 3.5 x 14.5
Dimensions (mm) Rectangular Chassis	489 x 89 x 331	483 x 89 x 331	489 x 89 x 331	489 x 89 x 369	489 x 89 x 369
Weight Net (Lb)	15.4	16	17	20	20
Weight Net (kg)	7	7.3	7.75	9.1	9.1
Shipping Dimensions (in) UPS/ Fedex	22.5 x 22.5 x 9	22.5 x 22.5 x 9	22.5 x 22.5 x 9	22.5 x 22.5 x 9	22.5 x 22.5 x 9
Shipping Dimensions (mm) UPS/ Fedex	572 x 752 x 229	572 x 752 x 229	572 x 752 x 229	572 x 752 x 229	572 x 752 x 229
Shipping Dimensions (in) Pallet	22 x 18.5 x 7	22 x 18.5 x 7	22 x 18.5 x 7	21.5 x 20 x 7	21.5 x 20 x 7
Shipping Dimensions (mm) Pallet	559 x 470 x 178	559 x 470 x 178	559 x 470 x 178	547 x 508 x 178	547 x 508 x 178
Shipping Weight (Lb)	21	22	23	29	29
Shipping Weight (kg)	9.6	10	10.5	13.2	13.2



**DSP Features
Overview**

High performance 96 kHz/24 bit AD/DA converters
64 bit double-precision 96 kHz DSP computation
0.85 ms through latency (non FIR)
1000 Tap FIR filter per channel
Optional Dante and AES3 inputs
Advanced Grouping for system equalization, gain, and delay
Realtime SMAART measurement system integration

Input Details

Gain, Mute, Polarity
Input Delay up to 333ms ch A, 90ms ch B,C,D
Up to 16 Parametric EQ inputs (HP, LP, Shelving, PEW, AP)

Output Details

Crossover Filters up to 48/dB Oct both FIR and
Output Delay up to 90ms per channel
Up to 12 IIR EQ per channel (HP, LP, Shelving, PEQa, PEQc, AP)
Up to 20 FIR EQ per channel (Linear Phase Xover, Shelving, PEQa, PEQc)
Up to 1000 Tap FIR Filter per channel
RMS and Peak limiting per channel

Communication Details

Two port ethernet switch for daisy chain operation
Front panel USB 2.0 port for single amp communication

Memory Details

100 Manufacturer loadable presets per library
20 User preset memories per library
100 snapshots per library
Multiple Level User and Manufacturer Password permissions
Advanced Multi Layer Control Groups for Equalization, Gain control, Delay
Advanced Zone definitions for library management, and alert information
SMAART Analysis Software Integration

Features and Protections

Advanced Power Control Management channel sharing of total device power		
Soft start	Turn on, Turn off transient damping	Over heating protection
Short Circuit protection	Open or Mismatched load protection	
Intelligent Clip Limiting	Mute active at turn on	RF Protection
Power Factor Correction switch mode power supply		DC Protection
Overloaded power supply protection		
Class D amplifier output stage, efficiency >90%		