

MT series

PROFESSIONAL POWER AMPLIFIER 专业功率放大器

Self-protecting Architecture

IPS Amplifiers implement several safety strategies protecting both the amplifier and the sound system, including an effective peak limiting protection for the transducers. The temperature-controlled continuous variable speed double-fan system (front to back), combined with the high-efficiency heat sinks, allows the amplifier to maintain the optimal working temperature, no matter the environmental temperature or the power output. The circuit is protected from overheating and short circuits, also including protections against infrasonic DC and Very High Frequency (VHF) peaks from non-musical signals that could damage transducers.

自保护架构

Mt放大器实施多种安全策略来保护放大器和音响系统，包括对传感器的有效峰值限制保护。温控连续变速双风扇系统（从前到后），结合高效散热片，使放大器无论环境温度或功率输出都保持最佳工作温度。该电路具有过热和短路保护，还包括针对非音乐信号产生的次声直流和甚高频（VHF）峰值的保护，这些信号可能会损坏换能器。



FEATURE 特性

- Using 3U chassis structure
- Fast response and low distortion
- Stereo, parallel, bridge modes
- Extensive protection circuit
- Variable speed cooling system
- Signal, clip, fault led indicators
- XLR input connectors
- SpeakON and binding post output connectors
- Limiter on each channel
- 3U 机箱结构
- 响应速度快、失真度低
- 立体声、并行、桥接模式
- 完善的保护电路
- 变速冷却系统
- 信号、削波、故障 LED 指示灯
- XLR 输入连接器
- SpeakON 和接线柱输出连接器
- 每个通道都有限制器



POWER AMPLIFIER

The Advantage of Class H

Class-H amplifiers modulate the supply voltage to the amplifier output devices so that it is never higher than necessary to support the signal swing. This reduces dissipation across the output devices connected to that supply and allows the amplifier to operate with an optimized efficiency, regardless of output power level. Up to full power, a Class-H design will require less energy than a pure class AB design, and is better suited for high-power applications.

H类的优势

H 类放大器调制放大器输出设备的电源电压，使其永远不会高于支持信号摆幅所需的电压。这减少了连接到该电源的输出设备的耗散，并使放大器能够以优化的效率运行，而不管输出功率水平如何。在达到全功率时，H 类设计比纯 AB 类设计需要更少的能量，并且更适合高功率应用。



SPECIFICATIONS 参数

Model Name	型号名称	MT1200	MT1400	MT1600	MT1800
Stereo Power Output : RMS	立体声功率输出：				
4 Ω x 2	4欧姆 x 2	1500 W	2000 W	2250 W	2800 W
8 Ω x 2	8欧姆 x 2	1000 W	1350 W	1500 W	1800 W
Bridged Mono Power Output : RMS	桥接单声道功率输出：				
8 Ω	8欧姆	2000 W	2700 W	3000 W	3600 W
Frequency Response	频率响应	20 Hz-20 Khz	20 Hz-20 KHz	20 Hz-20 Khz	20 Hz-20 KHz
Topology	拓扑结构	Class H	Class H	Class H	Class H
Input Sensitivity & impedance:	输入灵敏度和阻抗:				
Sensitivity	灵敏度	0dBu (0.775 Vrms)	0dBu (0.775 Vrms)	0dBu (0.775 Vrms)	0dBu (0.775 Vrms)
Balanced XLR input	平衡XLR输入	30 K Ω	30 K Ω	30 K Ω	30 K Ω
Maximum Input Level	最大输入电平	22 dBu (9.7 Vrms)	22 dBu (9.7 Vrms)	22 dBu (9.7 Vrms)	22 dBu (9.7 Vrms)
Voltage Gain	电压增益	33dB	36dB	37dB	39dB
Slew Rate	瞬态率(转换速率)	>30 V / us	>30 V / us	>30 V / us	>30 V / us
Crosstalk	通道隔离	<-75 dB	<-75 dB	<-75 dB	<-75 dB
S/N	信噪比	>100 dB	>100 dB	>100 dB	>100 dB
Distortion (1 W)	失真 (1W)	<0.05%	<0.05%	<0.05%	<0.05%
Damping Factor	阻尼系数	>600	>600	>600	>600
Controls:	控制:				
Front panel	前面板	AC Switch, CH A and CH B Gain Knobs AC 开关、CH A 和 CH B 增益旋钮			
Rear panel	后面板	Parallel, Stereo & Bridge Mode Switch; Limiter Switch 并行、立体声和桥接模式切换；限位开关			
Protections	保护措施	Thermal protect, Over-current protect, Output DC protect, Output short protect, Power on/off mute 热保护、过流保护、输出直流保护、输出短路保护、开关机静音			
Indicators	指示灯	Power, Protect, Signal, Peak 电源、保护、信号、峰值			
Dimensions HxWxD	尺寸 高x宽x深	88 x 483 x 430 mm			
Net Weight Kg/lbs	净重 公斤/磅	11 / 24.25	13 / 28.66	19 / 41.88	22 / 48.50
Gross Weight Kg/lbs	总重量 公斤/磅	13 / 27.5	14.5 / 31.9	22 / 49.60	25 / 56.22

* RMS 1000Hz/max.THD 1% ** stereo mode, one channel driven burst sinal (program peak) *** burst signal (program peak)
*有效值 1000Hz/最大总谐波失真 1% **立体声模式，一个通道以脉冲串信号推动（峰值音量） ***脉冲串信号（峰值音量）