

TOA DA-500FH									
Specifications									
General									
Power									
				2000W (1kHz, 20Ω: 100V line)					
				100V (1kHz, 20Ω: 100V line)					
				5A (1kHz, 20Ω: 100V line)					
Frequency Response									
1/8 Power	8 ohms	1kHz	—	491W, 3.5A	—	278W, 2.0A	—	1026W, 7.4A	—
	4 ohms		143W, 1.0A	—	79W, 0.7A	—	273W, 1.8A	—	
	100 Volts		202W, 1.4A	—	110W, 0.9A	—	411W, 2.7A	—	
1/3 Power	8 ohms		284W, 1.9A	—	150W, 1.1A	—	632W, 4.4A	—	
	4 ohms		437W, 3.0A	—	215W, 1.5A	—	958W, 6.9A	—	
	100 Volts		—	443W, 3.0A	—	237.7W, 1.7A	—	860W, 6.1A	
THD									
			20Hz—20kHz (±1dB)	50Hz—20kHz (-3dB, +1dB)	20Hz—20kHz (±1dB)	50Hz—20kHz (-3dB, +1dB)	20Hz—20kHz (-2dB, +1dB)	50Hz-20kHz (-3dB, +1dB)	
			0.1 % (1kHz)	0.1 % (1kHz)	0.1 % (1kHz)	0.1 % (1kHz)	0.1 % (1kHz)	0.1 % (1kHz)	
			0.3 % (20Hz—20kHz)	0.3 % (100Hz—20kHz)	0.3 % (20Hz—20kHz)	0.3 % (100Hz—20kHz)	0.15 % (20Hz—20kHz)	0.3 % (100Hz—20kHz)	
S/N Ratio (A weighted)									
						100dB			
Crosstalk at 10kHz (A weighted)									
						70dB			
DC Offset*									
						±5mV			
Voltage Gain*									
			29.5dB	38.2dB	29.5dB	38.2dB	32.6dB	38.2dB	
Damping Factor*									
			100 (1kHz, 8Ω)	300 (1kHz, 40Ω: 100V line)	100 (1kHz, 8Ω)	300 (1kHz, 40Ω: 100V line)	95 (1kHz, 8Ω)	240 (1kHz, 20Ω: 100V line)	
Inputs									
	Input impedance			10kΩ (unbalanced), 20kΩ (balanced)			10kΩ (unbalanced), 20kΩ (balanced)		
	Input sensitivity			+4dB (1.23V)			+4dB (1.23V)		
	Input clipping			14V (25.1dBu)			12V (23.8dBu)		
Protection Circuit									
	Amplifier section			DC output, overheat protection, load shorting, overload current, maximum output					
	Power supply section			Overheat protection, AC rush current					
Cooling									
				Continuously constant speed fan with front-to-rear airflow, 50,000 hours life time at 25°C			Continuously constant speed fan with front-to-rear airflow 100,000 hours life time at 25°C		
Operating Temperature									
				-10°C to +40°C					
Operating Humidity									
				Under 90% RH (no condensation)					
Dimensions									
				482 (W) × 44 (H) × 401.8 (D)mm			482 (W) × 88.4 (H) × 404.2 (D)mm		
Weight									
			6.8kg		5.3kg		9kg		
Finish									
				Panel: Aluminum, alumite process, black/Case: Plated steel sheet					
Accessories									
			Power cord(2m) × 1, Euro style terminal block connector (3-pin) × 4, Tamper-proof cap × 4, Rack mounting screw × 4	Power cord(2m) × 1, Euro style terminal block connector (3-pin) × 2, Tamper-proof cap × 2, Rack mounting screw × 2	Power cord(2m) × 1, Euro style terminal block connector (3-pin) × 4, Tamper-proof cap × 4, Rack mounting screw × 4				
Option									
			Matching transformer: MT-251H	Matching transformer: MT-251H	Matching tranformer: MT-251H				
			0dB~0.775Vrms Typical data						

MT-251H

Matching Transformer

Impedance: 100V Line: 40Ω (250W)

Frequency Response: 30Hz ~ 18kHz





For professional operation and

A Digital Amplifier technology redefines the very concept of amplifiers.

The power supply unit is the heart of the amplifier.
To ensure consistently high performance and reliable operation,
TOA engineers have given the DA Series
a system that provides power independently to
each of the four channels.
This testifies to TOA's attitude to product development,
which is always totally motivated by the desire to provide
high-quality products that offer worry-free use.
Never compromise —
that's the TOA philosophy.

Design optimization for efficient and reliable high-level performance

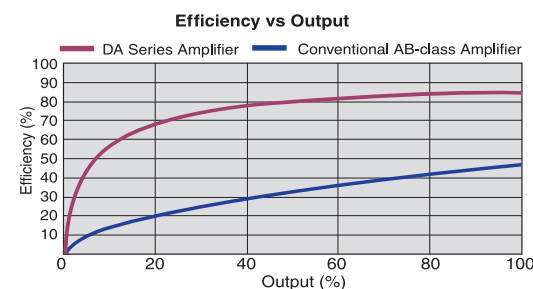
The TOA DA-250F/FH, DA-250D/DH and DA-550F/500FH multi-channel power amplifiers offer a wider choice of power ratings, advanced Class D amplification circuitry, and a highly efficient AC mains to output power ratio, for the complete technological superiority it takes to support long-term installation applications. These energy-efficient, space-saving amplifiers are designed to combine high levels of performance and efficiency, and are well-suited to ensure sound reinforcement reliability in a wide range of venue types. The "F" and "D" models are ideal for multi-zone applications such as presentation and press-conference rooms, restaurants and similar-sized locations. The "FH" and "DH" units are well-suited to such locations as exhibition halls, sports facilities, multipurpose halls and houses of worship.



FEATURES

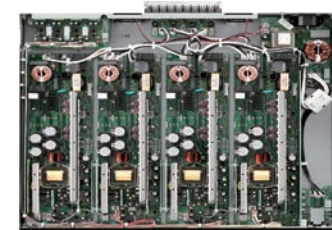
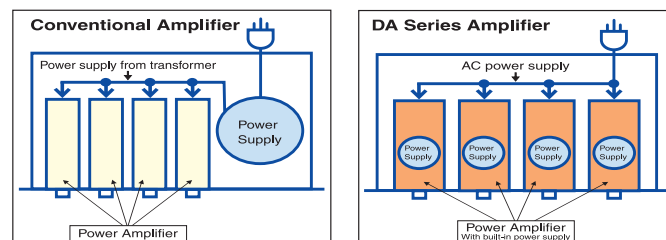
High efficiency

Extremely high amplification efficiency of 80-90%, resulting in reduction in power consumption by more than 60% compared with Class-AB amplifiers.



Independent power supply

Each of the channels has its own power supply. If the power supply of Channel 1 should fail, this won't affect the operation of Channels 2-4. It is also possible to use one of the channels as a spare amplifier.



Inside of DA-250F/FH model

Highly durable

Stands up to extended hours of operation. The DA amplifier has undergone a large number of rigorous tests to prove its durability. In addition, TOA has been conducting a "non-stop driving test" of the DA Series.

High reliability

The DA amplifier has a comprehensive protection circuitry for protection against excessive current flow due to overload, short circuit, unusual DC voltage output, power amplifier heat sink temperature rise (DA-250D/DH, DA-550F/500FH: over 100°C, DA-250F/FH: over 110°C), power supply temperature rise (DA-550F/500FH: over 80°C), and temperature rise inside the unit (DA-250D/DH, DA-250F/FH: over 80°C).

Amplifier with world-class lightweight design*

Installation has become much easier thanks to the lightweight design.

*TOA comparative data (weight/watt)

Compact design

The DA-250 Series is 1-unit size and the DA-500 Series is 2-unit size, and they can be efficiently mounted on a rack, so they require only a small installation space. Because the amplifiers do not generate much heat, 5 units can be stacked together in a rack.

