SPECIFICATIONS

	CATIONS						
Model		DA-250F	DA-250FH	DA-250D	DA-250DH	DA-550F	DA-500FH
Power Requirement		220 – 240V AC, 50/60Hz					
Number of Ch			4		2		4
·	All Channel Driven	1000W (1kHz, 4Ω) 680W (1kHz, 8Ω)	1000W (1kHz, 40Ω: 100V line)	340W (1kHz, 8Ω)	500W (1kHz, 40Ω: 100V line)	1400W (1kHz, 8Ω)	2000W (1kHz, 20Ω: 100V line)
Output Voltage	e per Channel	31.6V (1kHz, 4Ω) 36.9V (1kHz, 8Ω)	100V (1kHz, 40Ω: 100V line)	31.6V (1kHz, 4Ω) 36.9V (1kHz, 8Ω)	100V (1kHz, 40Ω: 100V line)	46.9V (1kHz, 4 Ω) 52.9V (1kHz, 8 Ω)	100V (1kHz, 20Ω: 100V line)
Output Curren	t per Channel	7.9A (1kHz, 4Ω) 4.6A (1kHz, 8Ω)	2.5A (1kHz, 40Ω: 100V line)	7.9A (1kHz, 4Ω) 4.6A (1kHz, 8Ω)	2.5A (1kHz, 40Ω: 100V line)	11.7A (1kHz, 4Ω) 6.6A (1kHz, 8Ω)	5A (1kHz, 20Ω: 100V line)
Power Output 8 ohms pe 4 ohms pe 16 ohms b 8 ohms br Hi-Z: 100V	er channel er channel oridged	170W 250W 340W 500W		170W 250W 340W 500W		350W 550W 700W 1100W	
Power Consur Idle power	mption* consumption	48W, 0.3A	75W, 0.5A	27W, 0.3A	46W, 0.5A	57W, 0.4A	65W, 0.5A
Rated pow	ver consumption 8 ohms 1kHz 4 ohms 100 Volts	800W, 5.8A 1200W, 8.7A	 1150W, 8.3A	400W, 2.8A 620W, 4.2A	 580W, 3.9A	1550W, 11.3A 2750W, 19.9A	 2300W, 16.8A
1/8 Power	8 ohms Pink noise 4 ohms 100 Volts	167W, 1.2A 248W, 1.6A	 270W, 1.9A	95W, 0.8A 126W, 0.9A	 143W, 1.1A	325W, 2.2A 442W, 2.7A —	493W, 3.1A
1/3 Power	4 ohms 100 Volts	349W, 2.4A 511W, 3.7A —	491W, 3.5A	184W, 1.3A 267W, 1.9A	 278W, 2.0A	733W, 5.1A 1119W, 8.0A	 1026W, 7.4A
	8 ohms 1kHz 4 ohms 100 Volts	143W,1.0A 202W, 1.4A —	 230W, 1.6A	79W, 0.7A 110W, 0.9A	 128W, 1.0A	273W, 1.8A 411W, 2.7A	 399W, 2.6A
1/3 Power	8 ohms 4 ohms 100 Volts	284W, 1.9A 437W, 3.0A	 443W, 3.0A	150W, 1.1A 215W, 1.5A	 237.7W, 1.7A	632W, 4.4A 958W, 6.9A	 860W, 6.1A
Frequency Re	sponse	20Hz – 20kHz (±1dB)	50Hz — 20kHz (-3dB, +1dB)	20Hz – 20kHz (±1dB)	50Hz – 20kHz (-3dB, +1dB)	20Hz – 20kHz (–2dB, +1dB)	50Hz - 20kHz (-3dB, +1dB)
THD		0.1 % (1kHz) 0.3 % (20Hz – 20kHz)	0.1 % (1kHz) 0.3 % (100Hz – 20kHz)	0.1 % (1kHz) 0.3 % (20Hz – 20kHz)	0.1 % (1kHz) 0.3 % (100Hz – 20kHz)	0.1 % (1kHz) 0.15 % (20Hz – 20kHz)	0.1 % (1kHz) 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 Fact	or*	100 (1kHz, 8Ω)	300 (1kHz, 40Ω: 100V line)	100 (1kHz, 8Ω)	300 (1kHz, 40Ω: 100V line)	95 (1kHz, 8Ω)	240 (1kHz, 20Ω: 100V line)
nputs	Input impedance Input sensitivity Input clipping	$ \begin{array}{ll} 10 k\Omega \ (\text{unbalanced}), 20 k\Omega \ (\text{balanced}) & 10 k\Omega \ (\text{unbalanced}), 20 k\Omega \ (\text{balanced}) \\ +4 dB \ (1.23 V) & +4 dB \ (1.23 V) \\ 14 V \ (25.1 dBu) & 12 V \ (23.8 dBu) \\ \end{array} $				(1.23V)	
Protection Cir	cuit Amplifier section Power supply section	DC output, overheat protection, load shorting, overload current, maximum output Overheat protection, AC rush current					
Cooling			d fan with front-to-rear airflow, 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		$482 \text{ (W)} \times 44 \text{ (H)} \times 401.8 \text{ (D)mm}$ $482 \text{ (W)} \times 88.4 \text{ (H)} \times 404.2 \text{ (D)mm}$					
Weight		6.8kg 5.3kg 9kg					
Finish		Panel: Aluminum, alumite process, black/Case: Plated steel sheet					
Accessories		$\begin{array}{lll} \text{Power cord(2m)} \times 1, & \text{Power cord(2m)} \times 1, & \text{Power cord(2m)} \times 1, & \text{Power cord(2m)} \times 1, \\ \text{Euro style terminal block connector (3-pin)} \times 4, & \text{Euro style terminal block connector (3-pin)} \times 2, \\ \text{Tamper-proof cap} \times 4, \text{Rack mounting screw} \times 4 & \text{Tamper-proof cap} \times 2, \text{Rack mounting screw} \times 2 & \text{Tamper-proof cap} \times 4, \text{Rack mounting screw} \times 4 \\ \end{array}$					k connector (3-pin) × 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





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Specifications are subject to change without notice.

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DA-250D/250DH DA-250F/250FH DA-550F/500FH Multi-Channel Digital Power Amplifier

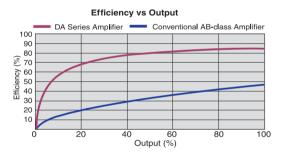


Top-of-the-line operation and performance efficiency



FEATURESHigh efficiency

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



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).

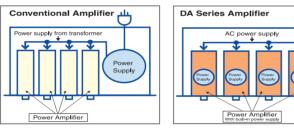
Amplifier with world-class lightweight design*

Installation has become much easier thanks to the lightweight design.

*TOA comparative data (weight/watt)

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.

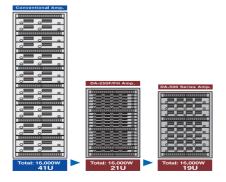




Inside of DA-250F/FH mode

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.



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.

