YAMAHA

POWER AMPLIFIER

MA2030a
PA2030a

ZV75870

Technical Specifications

保証書付き(日本専用)

Specifications

Outputs (Speaker Out)		MA2030a	PA2030a
Output power			
20msec burst (THD+N=1%)	3, 4, 8ohms	30W x 2ch	
	70V	60W x 1ch	
	100V	60W x 1ch	
Terminal		7.62mm barrier strip 4pin	

Outputs (Line Out)		MA2030a	PA2030a
Line Out (MA2030a only)			
	Actual source impedance	600Ω	—
	For use with nominal	10kΩLines	—
Output Level	Nominal	-10dBV (316.2mV)	—
Terminal		STEREO RCA PIN, unbalanced	—

Inputs		MA2030a	PA2030a
MIC IN 1-2 (MA2030a only)			
Terminal	MIC IN 1	XLR combo jack, balanced	—
	MIC IN 2	3.5mm Euroblock 3pin, balanced	—
STEREO IN			
Input Level (ST SOURCE Gain is set to maximum)	Sensitivity	-10.0 dBV (316.2 mV)	
	Nominal	-10.0 dBV (316.2 mV)	
	Max before clip	10.0 dBV (3.162 V)	
Input Level (balance) (PA2030a only)	Sensitivity	—	4.0dBu (1.228V)
	Nominal	—	4.0dBu (1.228V)
	Max before clip	—	24dBu (12.283V)
Terminal (MA2030a)	STEREO IN 1	STEREO mini Phone (3.5mm), unbalanced	—
	STEREO IN 2, 3	STEREO RCA PIN, unbalanced	—
Terminal (PA2030a)	LINE IN (Unbalance)	—	STEREO RCA PIN, unbalanced
	LINE IN (Balance)	—	3.5mm Euroblock 3pin x 2

Electrical Characteristics		
Amplifier type (Output circuitry)		Class D
THD+N	1kHz, 15W, 3Ω/4Ω/8Ω Stereo In to Speaker Out	≤ 0.1%
	1kHz, 30W, 70V/100V Stereo In to Speaker Out	≤ 0.2%
Frequency response	Line In to Line Out 20 to 20kHz (MA2030a only)	0dB, -2.5dB, +1.0dB
	Line In to Speaker Out 50 to 20kHz, 1W, 3 or 4 or 8ohms	0dB, -3.0dB, +1.0dB
	Line In to Speaker Out 90 to 20kHz, 1W, 70/100V	0dB, -3.0dB, +1.0dB
Crosstalk	Stereo In to other Stereo In (MA2030a only)	≤ -70dB
Load protection	POWER switch on/off	Mute the output
	Output voltage protection	Compress output voltage when needed
	DC-fault	Power supply shutdown
Amplifier protection	Thermal	Limit output → Mute → Shutdown
	Over current	Mute the output (with automatic restoration)
	Integrated power limit	Compress output
Power supply protection	Thermal	Power supply shutdown
	Over voltage	Power supply shutdown
	Over current	Limit power → Power supply shutdown
Cooling		Conventional cooling, bottom to up airflow

		MA2030a	PA2030a
Controls	Front Panel	POWER switch (seesaw), MIC IN 1 volume x 1, ST SOURCE encoder x 1 OUTPUT Volume x 1, BASS EQ Volume x 1, TREBLE EQ Volume x 1	POWER switch (seesaw), OUTPUT Volume x 1,
	Rear Panel	AMP SETTING switch (100V | 70V | 3Ω/4Ω/8Ω), SETUP switch (3Ω/4Ω/8Ω, SPEAKER EQ SURFACE/CEILING/HPF 150Hz, MIC1 DUCKER, MIC2 DUCKER, STEREO/MONO, LEVELER), MIC IN 2 Volume x 1	AMP SETTING switch (100V | 70V | 3Ω/4Ω/8Ω), SETUP switch (3Ω/4Ω/8Ω, SPEAKER EQ SURFACE/CEILING/VXS10S(T)/ HPF 150Hz/LPF 150Hz/LPF 200Hz, STEREO/MONO)
Connectors	Analog In (Mic input)	XLR/PHONE combo x 1 (Front), Euroblock x 1 (Rear)	—
	Analog In (Line)	Stereo mini x 1 (Front), Stereo RCA x 2 (Rear)	Euroblock x 2 (Rear), Stereo RCA x 1 (Rear)
	Analog Out (Line)	Stereo RCA x 1 (Rear)	—
	Speakers	Barrier strip/ch	
	Remote	RJ45 x 1 (DCP)	—
	Power	AC inlet x1	
Indicators		POWER x 1 (Green), MIC IN 1 SIGNAL x 1 (Green), ST SOURCE x 3 (Green), OUTPUT SIGNAL x 1 (Green), OUTPUT LIMIT x 1 (Red)	POWER x 1 (Green), OUTPUT SIGNAL x 1 (Green), OUTPUT LIMIT x 1 (Red)
AC power requirement		100V, 120V, 230V-240V 50Hz/60Hz (*1) *1 It has confirmed that it is working with ±10% of the voltage of the rated supply voltage.	
Power consumption	1/8 MAX power, 3Ω, AC100V, Pink noise at all channel	30W	30W
	Idle, 3Ω, AC100V	25W	25W
Precautions for rack mounting		Rack mountable (Leave more than 1U of spaces between this unit and others.)	
Operating temperature		0°C to +40°C	
Storage temperature		-20°C to +60°C	

General Specifications	MA2030a	PA2030a
Dimensions (W x H x D, including knob)	215mm x 54mm x 288 mm 8.5 x 2.1 x 11.4 inch	
Net weight	1.8kg	
Included accessories	AC power cord (2.0m) x 1, Euroblock connector (3P) x 1, Owner's Manual x 1, Specification sheet x1	AC power cord (2.0m) x 1, Euroblock connector (3P) x 2, Owner's Manual x 1, Specification sheet x1
Optional accessories	Rack-mount Accessory (RKH1) Digital Control Panel (DCP1V4S-US/-EU)	

Current Draw

1/8 power is typical of program material with occasional clipping. Refer to these figures for most applications.
1/3 power represents program material with extremely heavy clipping
Test signal: Pink Noise, bandwidth limited from 22Hz to 22kHz
1W = 0.860kcal/h, 1BTU = 0.252kcal
Note that Line Voltage [V] x Line Current [A] = [VA], not equals to [W]

Power Spec (PINK NOISE,100V/50Hz mains)

MODE		Line Current (A)	Power Consumption (W)	Watts Dissipated (W)	Heat Dissipation	
					Btu/h	kcal/h
standby		0.08A	0.1W	0.1W	0.3	0.1
idle		0.28A	14W	14W	48	12
1/8 output power	30W/3Ω	0.48A	27W	20W	67	17
	30W/4Ω	0.47A	26W	19W	63	16
	30W/8Ω	0.45A	24W	17W	56	14
	60W/70V	0.44A	24W	17W	56	14
	60W/100V	0.44A	24W	17W	56	14
1/3 output power	30W/3Ω	0.87A	52W	32W	109	28
	30W/4Ω	0.84A	49W	29W	99	25
	30W/8Ω	0.74A	43W	23W	78	20
	60W/70V	0.69A	40W	20W	68	17
	60W/100V	0.68A	40W	20W	68	17

Power Spec (PINK NOISE,120V/60Hz mains)

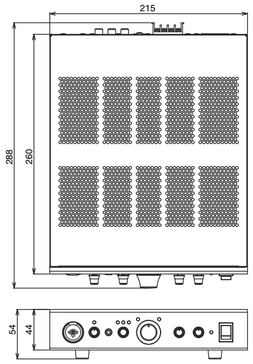
MODE		Line Current (A)	Power Consumption (W)	Watts Dissipated (W)	Heat Dissipation	
					Btu/h	kcal/h
standby		0.12A	0.1W	0.1W	0.4	0.1
idle		0.27A	14W	14W	48	12
1/8 output power	30W/3Ω	0.44A	27W	20W	67	17
	30W/4Ω	0.42A	26W	19W	63	16
	30W/8Ω	0.40A	24W	17W	56	14
	60W/70V	0.39A	23W	16W	53	13
	60W/100V	0.39A	24W	17W	56	14
1/3 output power	30W/3Ω	0.77A	52W	32W	109	28
	30W/4Ω	0.74A	49W	29W	99	25
	30W/8Ω	0.64A	42W	22W	75	19
	60W/70V	0.59A	39W	19W	65	16
	60W/100V	0.59A	39W	19W	65	16

Power Spec (PINK NOISE,230V/50Hz mains)

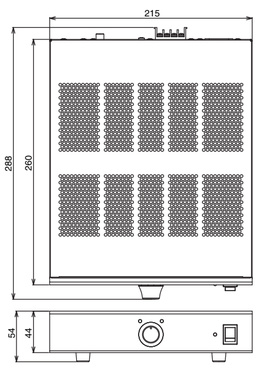
MODE		Line Current (A)	Power Consumption (W)	Watts Dissipated (W)	Heat Dissipation	
					Btu/h	kcal/h
standby		0.19A	0.4W	0.4W	1.4	0.3
idle		0.25A	16W	16W	53	13
1/8 output power	30W/3Ω	0.33A	28W	20W	69	17
	30W/4Ω	0.32A	27W	19W	65	16
	30W/8Ω	0.32A	26W	18W	62	16
	60W/70V	0.31A	25W	17W	59	15
	60W/100V	0.31A	25W	17W	59	15
1/3 output power	30W/3Ω	0.50A	51W	31W	107	27
	30W/4Ω	0.49A	49W	29W	100	25
	30W/8Ω	0.44A	42W	22W	76	19
	60W/70V	0.41A	39W	19W	64	16
	60W/100V	0.41A	39W	19W	64	16

Dimensions

MA2030a



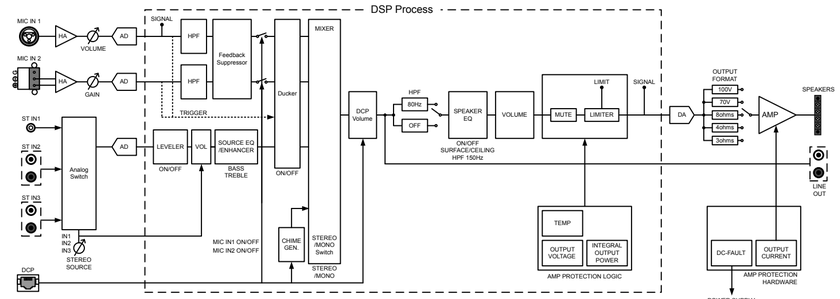
PA2030a



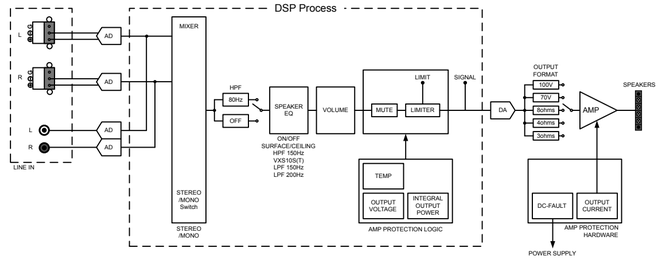
(unit: mm)

Block Diagram

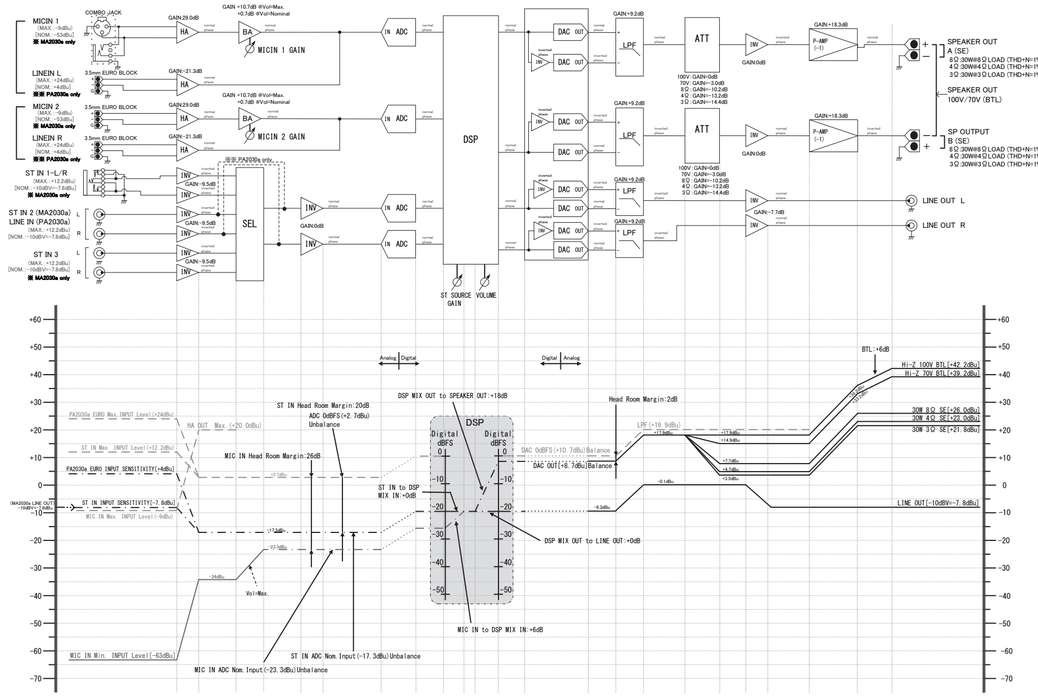
MA2030a



PA2030a



Level Diagram



* The contents of this manual apply to the latest specifications as of the publishing date. To obtain the latest manual, access the Yamaha website then download the manual file.

* Der Inhalt dieser Bedienungsanleitung gilt für die neuesten technischen Daten zum Zeitpunkt der Veröffentlichung. Um die neueste Version der Anleitung zu erhalten, rufen Sie die Website von Yamaha auf und laden Sie dann die Datei mit der Bedienungsanleitung herunter.

* Le contenu de ce mode d'emploi s'applique aux dernières caractéristiques techniques connues à la date de publication du manuel. Pour obtenir la version la plus récente du manuel, accédez au site Web de Yamaha puis téléchargez le fichier du manuel concerné.

* El contenido de este manual se aplica a las últimas especificaciones según la fecha de publicación. Para obtener el último manual, acceda al sitio web de Yamaha y descargue el archivo del manual.

* O conteúdo deste manual se aplica às especificações mais recentes a partir da data de publicação. Para obter o manual mais recente, acesse o site da Yamaha e faça o download do arquivo do manual.

* Il contenuto del presente manuale si applica alle ultime specifiche tecniche a partire dalla data di pubblicazione. Per ottenere la versione più recente del manuale, accedere al sito Web Yamaha e scaricare il file corrispondente.

* В содержании данного руководства приведены последние на момент публикации технические характеристики. Для получения последней версии руководства посетите веб-сайт корпорации Yamaha и загрузите файл с руководством.

* 本使用说明书的内容为出版时最新的技术规格。请至Yamaha网站下载最新版本的使用说明书。

* 本書は、発行時点での最新仕様で説明しています。最新版は、ヤマハウェブサイトからダウンロードできます。