

Digital SR Amplifier & Output Transformer



DSA-100D/DV OPT-100D





DSA-100D/DV

Digital SR Amplifier

Overview

The DSA100D is a compact half rack digital power amplifier. This two channel amplifier uses Class D circuitry and switch mode power supply delivering High power output with great efficiency. Its high efficiency design ensures low power consumption with very low heat dissipation. Features include an input sensitivity adjustment, a high pass filter and remote contact closure power on. The amplifier outputs can be bridged offering twice the output on one speaker line. Euro Block type input and output terminals simplifies quick and easy of installation. Using a external Output Transformer Unit (OPT-100D), DSA-100D can be used in applications require a high impedance amplifier.

Compact Half Rack Digital Amplifier

With its compact half rack form factor design the amplifier delivers high efficiency with low power consumption and very low heat dissipation

HPF(High Pass filter)

HPF allows the amplifier to be used according to the kinds and features of speakers.

Input Sensitivity Adjustment

The input sensitivity adjustment allows the amplifier to be used with a variety of input sources.

External Output Transformer Unit

Using a external Output Transformer Unit (OPT-100D), DSA-100D can be used in applications require a high impedance amplifier which has 70V/100V output.

ENERGY STAR CERTIFICATION

ENERGY STAR CERTIFICATE that EPA and DOE recognize is achieved, and it is eco-friendly product which has high energy efficiency and low standby power(less than 1W).

Bridge Mode

The amplifier outputs can be bridged offering twice the output on one speaker line.

Remote Power ON/OFF

The remote power on allows the amplifier to be turned on or off from other device via dry contact closure.

Euro Block

Euro Block type input and output terminals give an advantage of easy installation without a certain connector.

VCA(Voltage Control Amplifier) (DSA-100DV)

VCA is a circuit that sound volume is changed according to control voltage. If sound volume is needed to be changed in an external area, it is possible to control without noise even though connected line of variable resistance is long if VCA control is used.





OPT-100

Output Transformer Unit

Overview

OPT-100D is output transformer to convert 100W DSA-100D (Half-Rack Compact Size, two channels, Digital Amp) to 70/100V output. The DSA-Series can deliver 70/100V output using the OPT-100 transformer.

Compact Size

Features are SLIM, type compact size(1RU, Half-Rack size, 280mm rear width), 100W, 2 channels, low weight, and easy installation anywhere.

High Performance OPT

Output Transformer delivers clear and high quality sound.

100V/70V Output

100V/70V outputs are supported.

❖ Front Panel / Rear Panel



- 1 Volume Control
- 2 Clip LED

- 3 Signal LED
- 4 Protection LED



- 5 Power LED
- 6 Stand by LED



- 1 AC Power Input Terminal
- 2 Speaker Output
- 3 Remote Power Control Input
- 4 Power Mode Select Switch

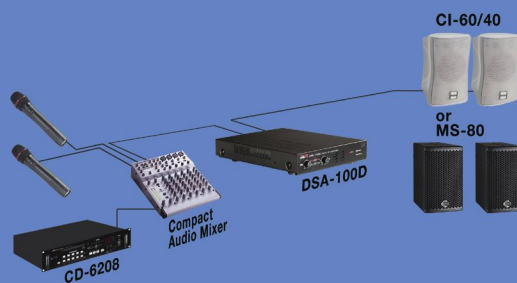
- 5 Bridge Mode Select Switch
- 6 HPF Select Switch
- 7 Ch1 Input Terminal
- 8 Ch2 Input Terminal



- 9 Input Sensitivity
- 10 VCA Control Terminal

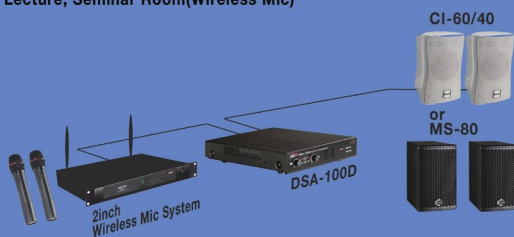
APPLICATIONS

Lecture, Seminar Room



Classroom & Seminar Room Mic & Player

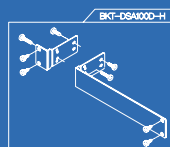
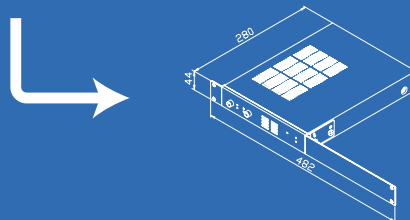
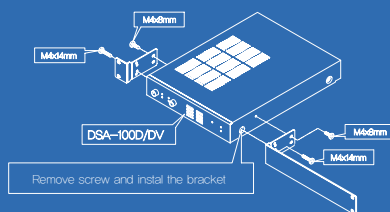
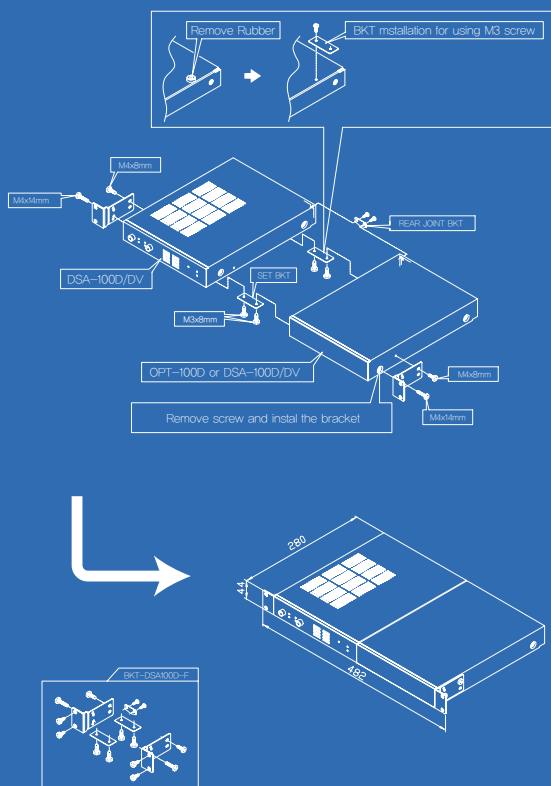
Lecture, Seminar Room(Wireless Mic)



Wireless Mic in Classroom & Seminar Room

Network AV Solution

Lecture, System Application





DSA-100D/DV Specifications

				DSA-100D	DSA-100DV
Rated Output Power	20kHz LPF, AUX-0025. @ 1kHz, @ THD + N = 1%.	2 Channel Mode	4Ω	100W	
			8Ω	55W	
		Bridged Mode	8Ω	200W	
Peak Power	Bridged 4Ω 1kHz 10cycle@ 1kHz.			280W	
Input Sensitivity	20kHz LPF, AUX-0025. @ 1kHz.	GAIN Switch : +4dBu (1.2283V)		+4dBu ±2dB	
		GAIN Switch : -20dBu (77.5mV)		-20dBu ±2dB	
Damping Factor	1kHz, Rated Output Power @8Ω			110	
THD + N	20kHz LPF, AUX-0025. @ 1kHz, @ 10dB Below Rated Output Power	2 Channel Mode 10dB B	4Ω 1kHz	0.02%	0.03%
		2 Channel Mode 10dB Bel	8Ω 1kHz	0.02%	0.03%
		Bridged Mode 10dB Belo	8Ω 1kHz	0.02%	0.03%
S/N	20kHz LPF, AUX-0025, A-WTD.			93dB	92dB
Frequency Response	Input 1,2283 vrms. VOLUME Adjust.	2 Channel Mode Output 1W/8Ω ±10dB	20~20kHz		
HPF	Input 1,2283 vrms. VOLUME Adjust.	2 Channel Mode Output 1W / 4Ω	120Hz	-3dB ± 2dB (-12dB / oct)	
Channel Separation	20kHz LPF, AUX-0025. @ 3dB Below Rated Output Power	2 Channel Mode 3dB Below	1kHz	-65dB	
Operating Temperature				Temperature : -10℃ ~ +40℃ Humidity : 0% ~ 90%	
Power Source				100-240V, 50/60Hz	
Power Consumption (1/8 Rated Output Power @4Ω)				45W	
STAND BY Power Consumption				Less than 1W	
Weight (SET)				2.5kg/5.5lb	
Dimensions (SET)				210(W) x 44(H) x 280(D)mm 8.3(W) x 1.73(H) x 11(D)in	

※ Specification test condition : gain switch +4dBu, HPF off, 2 channel mode.



OPT-100D Specifications

		OPT-100D
Rated Power Output (@ 1kHz)		100W x 2
Input		20V
100V Output Voltage and Minimum Impedance		100V \pm 10dB / 100 Ω
70V Output Voltage and Minimum Impedance		70V \pm 7dB / 49 Ω
Frequency Response (1W)	OPT-100D	80~20kHz (–3dB)
	OPT-100D + AMP	80~17kHz (–3dB)
Operating Temperature		Temperature : –10°C ~ +40°C, Humidity : 0% ~ 90%
Weight (SET)		4.2kg/9.3lb
Dimensions (SET)		210 x 44 x 280 mm/8.3(W) x 1.73(H) x 11(D)in



ENERGY STAR Certificated High Power utility amplifier



❖ Related Products



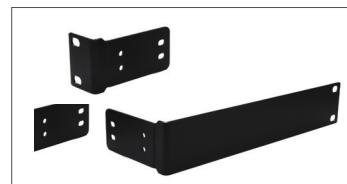
CPA-100
Compact Pre Amp



VCA-100
External Volume



BKT-DSA100D-F
19'' Rack Bracket



BKT-DSA100D-H
19'' Rack Bracket



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※ Design and specification are subject to be changed for the improvement of product quality without pre notice.

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