

**FA Series  
High-Density  
Power  
Amplifiers.  
Perfect for  
conference  
rooms or  
anywhere  
space is at a  
premium.**



**Y**ou don't have to sacrifice space to get up to four channels of clean, robust amplifier power.

The half- and one-rack-space size FA Series high-density Class D amps belie their output: up to 125 W x 4 in a **half** rack space...up to 250 W x 4 in one rack space!

FA amplifiers can nestle under conference tables, inside kiosks and trade show exhibits, reception area counters and anywhere else a larger amplifier just won't fit.

Naturally, they have the rugged reliability that Ashly is known for...including a 5-year warranty.



- Conference Rooms
- Trade Show Exhibits →
- Huddle Rooms
- Inside Displays & Kiosks
- Bars and Restaurants
- Reception Areas
- Hotel Lobbies



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on  
PAGE THREE**

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\*Done so that those fortunate to have printers with 2-sided printing capabilities can print out the Data Sheet on one sheet of paper.

# FA Series

## High-Density Power Amplifiers

The FA Series is designed for easy and flexible placement, going where other amps cannot: under conference tables, behind displays, inside kiosks... anywhere high-quality, reliable power is needed, but space is limited.



The 1/2 RU FA-125.2 & FA-125.4 offer



FA 125.4



FA 250.4



125W of efficient Class D power per channel (x 2 on the 125.2 and x 4 on the 125.4). With selectable Low Z or Hi Z operation, they're capable of powering low-Z, full range speakers as well as 70V and 100V distributed speaker systems.

Where additional power is needed, the full 1 RU, 4 x 250W FA-250.4 (also designed for Hi/Low Z) delivers seriously high power-density in a 1U package.

The FA-125.2 and FA-125.4 can share power between channel pairs up to a total of 250W total per pair. So a system may be designed with a 180W load on one channel and 70W on the other. Or if a single channel only is driven, 250W can be output to drive a heavier load such as subwoofer.



FA 125.2



	Chs	Width	4Ω / 8Ω all chs.driven	70V	100V
<b>FA-125.2</b>	2	1/2 19"	125W	125W	125W
<b>FA-125.4</b>	4	1/2 19"	125W	125W	125W
<b>FA-250.4</b>	4	1U	250W	250W	250W

- 2 and 4-channel models
- 125 and 250 W @4Ω
- 70/100V capability
- Efficient Class D design
- Energy Star certified
- Adaptive fan cooling
- Installer-friendly Euroblock connectors
- 80Hz HPF (in Hi Z Mode)
- Front panel Signal/Clip/Mute LED
- Front panel Input Level controls and Power On/Off w/lockout
- USB port for firmware updates
- Power-sharing on 1/2 RU models up to 250W
- 5-Year Warranty

FA SERIES SPECIFICATIONS			
	FA 125.2	FA 125.4	FA 250.4
<b>Configuration</b>			
Size Format (HxW)	1RU x 1/2 19"	1RU x 19"	
Configuration	Pre-BTL		
# of Channels	2	4	4
<b>Output Power (per channel)</b>			
2 Ohm	Not Recommended		
4 Ohm	125W	250W	
8 Ohm	125W	250W	
16 Ohm	125W	250W	
70V	125W	250W	
100V**	125W	250W	
Power Sharing	Yes x 2 (up to 250W)		No

	FA 125.2	FA 125.4	FA 250.4
Frequency Response (±0.05dB)	20HZ-20kHz		
S/N Ratio (20Hz-20kHz, unweighted)	>102dB		
Input Sensitivity	-10dBV (0.316Vrms)/+4dBu (1.228Vrms), Selectable		
THD + Noise	< 0.5%		
Damping Factor (8 Ohms < 1kHz)	>250		

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### FA SERIES SPECIFICATIONS

	FA 125.2	FA 125.4	FA 250.4
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#### Power Consumption (1/8 full power, 1kHz sine-wave on all channels, in Watts)

Sleep (Energy Star)	<0.5	<0.5	<0.5
Idle Lo-Z	8	15	25
Idle Hi-Z	13	25	30
1/8 Power (4 Ohms)	52	104	196
1/8 Power (8 Ohms)	49	96	186
1/8 Power (70V)	51	101	191
1/8 Power (100V)	48	96	181

#### Thermal Dissipation (BTU/hour with typical input, all channels driven, 120VAC)<sup>1</sup>

Sleep mode	<1.7	<1.7	<1.7
Idle Lo-Z (no signal)	28	52	86
Idle Hi-Z (no signal)	45	85	103
1/8 max power, 4 Ohm	72	144	243
1/8 max power, 8 Ohm	62	116	209
1/8 max power, 70V	69	133	226
1/8 max power, 100V	58	116	191

#### Voltage Gain(per output mode and input sensitivity setting, in dB)

Low Z @ -10dBV	43.1
Hi-Z 70V @ -10dBV	46.9
Hi-Z 100V @ -10dBV	49.1
Low Z @ +4dBu	31.3
Hi-Z 70V @ +4dBu	35.1
Hi-Z 100V @ +4dBu	37.3

#### I/O Features

HPF	Yes. 80Hz (in HiZ Mode, non-defeatable)
Clip Limiter	Yes (at clip threshold +24dBu, non-defeatable)

#### Connectors

Input	Removeable Euroblock/ Balanced 6-pole (pr)
Output	Removeable Euroblock/ 2-pole (per ch)
GPIO	Removeable Euroblock/ 6-pole DC volume per channel pair <sup>2</sup> , Standby, Fault Out
USB	USB-C for Firmware update

#### DIP Switches

1	HiZ/LowZ Ch 1
2	HiZ/LowZ Ch 2
3	Not Used
4	HiZ/LowZ Ch 3
5	HiZ/LowZ Ch 4
6	70/100V

<sup>1</sup> **Note:** When making a true comparison of energy efficiency, one must look at the Thermal Dissipation (BTU/hr) numbers for a product. All other efficiency, i.e. "percentage" numbers are not standards based, and therefore may be marketing hype. Ashly Audio builds highly efficient Class-D amplification with SMPs that will equal or surpass the competition on BTU/hr thermal output (unused energy per channel given off as heat). Please check our published BTU/hr. specifications for more information.

<sup>2</sup> FA 125.2: two channels

#### DIP Switches (continued)

	FA 125.2	FA 125.4	FA 250.4
6	Input Sensitivity (-10/+4dB)		
7	Standby Polarity (NO/NC)		
8	Front Panel Lockout		

#### LEDs/Indicators

Front LED (per channel)	Green: Signal Present, Yellow: Limit (+24dbu), Red: Mute/Protect
Front LED (Main)	White-On, Blink (0.5Hz)-Standby, Dark-Off

#### General

Pre-Sleep Mode	>15 minutes inactivity, all channels muted, wake-on-audio
Sleep Mode	>29 minutes inactivity, Energy Star® power saving mode, power LED blinks every two seconds, wake-on-audio
Standby Mode	Contact closure activated, power LED flashes evenly @1Hz
Remote Control Options	WR-1, WR-1.1 DC level control
Cooling	Adaptive Fan Cooling (side-to-rear venting)
Amplifier Protection	Over-temperature, output DC, output over-power, AC mains voltage, mains fuse
Standby Switch	Soft Switch w/ LED backlight
Power Connector	IEC
Attenuators	Recessed Front panel Input Level (per ch)
Power Supply	100-240VAC, 50-60Hz
Minimum Startup Voltage	85VAC@ 120V nominal, 170VAC@ 240V nominal
Environmental	32°F-104°F, (0°C-40°C) non-condensing
Safety Compliance	UL, Energy Star®, CE, FCC Class B, RoHS

#### Weights & Dimensions • US measure

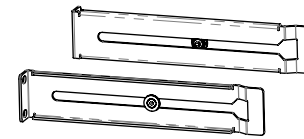
Unit Weight (lbs)	3.55	5.36	7.89
Unit Height (in.)	1.72	1.72	1.72
Unit Width (in.)	8.66	8.66	17.33
Unit Depth (in.)	10.32	13.3	11.54
Shipping Weight (lbs)	5.66	7.14	10.12
Shipping Height (in.)	8.94		8.94
Shipping Width (in.)	23		28.7
Shipping Depth (in.)	19.4		23.2

#### Weights & Dimensions • Metric measure

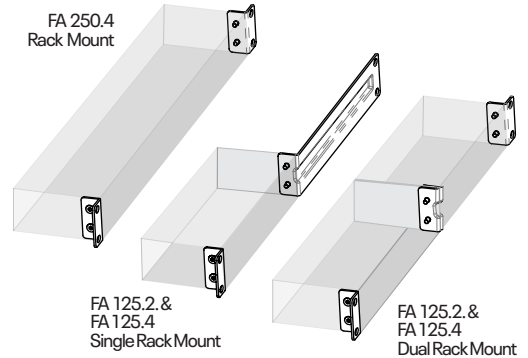
Unit Weight (kg)	1.61	2.43	3.6
Unit Height (mm)	43.7	43.7	43.7
Unit Width (mm)	220	220	440
Unit Depth (mm)	262	338	293
Shipping Weight (kg)	2.37	3.24	4.63
Shipping Height (mm)	227		227
Shipping Width (mm)	584		729
Shipping Depth (mm)	492		589



Wall mount bracket for FA 125.2 & FA 125.4



Rack rear support for FA 250.4



FA 250.4 Rack Mount

FA 125.2 & FA 125.4 Single Rack Mount

FA 125.2 & FA 125.4 Dual Rack Mount

#### USER MANUAL



SCAN ME

Or download the complete User Manual at [http://ashly.com/wp-content/uploads/2019/09/FA\\_Manual.pdf](http://ashly.com/wp-content/uploads/2019/09/FA_Manual.pdf)

#### FA SERIES ARCHITECT & ENGINEERING SPECIFICATIONS

in .txt and MS Word .docx format are available in the

DOWNLOADS section of

<http://ashly.com/fa-series-amplifiers/>

#### FA SERIES 2D AUTOCAD FILES

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