FX Series
DSP Power Amplifiers
with intuitive
web-based software
UI and built-in WiFi for
convenient
connectivity and
configuration.

The FX series is a range of multi-purpose installation DSP-equipped amplifiers. The FX series amplifiers feature a built-in Wireless-Access-Point (WAP) for simple connection and configuration via WiFi as well as an intuitive web-based software UI.

With 6 models to choose from starting at 2 x 60W in a half rack unit to 4 x 500W in a two rack unit, there’s an FX that will fit just about any project.

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

ASHLY

TECHNICAL SPECS on PAGE FOUR
The FX Series’ pedigree is the culmination of compact Class D design and Ashly’s years of developing easy-to-use software. Along with a newly incorporated DSP engine & software UI, the FX series takes amplification to new levels.

Each FX model offers a healthy compliment of IO (include Digital SPDIF In & Out) and programmable integration ports for remote Volume Control, GP triggers and more.

FX is networkable via Ethernet for wired LAN connection, or via its built-in WiFi hotspot. FX allows system configurations that don’t require additional equipment, such as stand-alone DSP or speaker system processors. All of that is in one box.

Status:
- Off - Mains power disconnected.
- Green - Amplifier operational.
- Pulse Green - Standby Mode.
- Amber - GPIO triggered Standby Mode

Input:
- Off - No input signal present.
- Green - Signal present on one or more inputs.
- Amber - Signal limiting/clipping on one or more inputs.

Output:
- Off - No output signal present.
- Green - Signal present on one or more outputs.
- Amber - Signal limiting/clipping on one or more outputs.
- Red - One or more channel pair is in overload/protection mode.

WiFi:
- Off - WiFi disabled.
- Green - WiFi enabled

Network:
- Off - No Ethernet network detected.
- Green - Network enabled
- Green - Ethernet network detected.

GPIO Interface (channel-assignable in software)
- Pin 1: GND (Ground) for Trigger In (1) & 2
- Pin 2: Standby or Mute Port
- Pin 3: GND (Ground) for VC (Volume) 1-4
- Pin 4: Remote VC (Vol) 1
- Pin 5: Remote VC (Vol) 2
- Pin 6: Remote VC (Vol) 3 or Trigger 1 In
- Pin 7: Remote VC (Vol) 4 or Trigger 2 Out
- Pin 8: 3.3V for VC

100/1000 BASE-T Ethernet Network Connection

2-Channel Models

4-Channel Models

Speaker Outputs 1-2

SPDIF Digital Input/Output

Unbalanced Analog Inputs 1-4

Balanced Analog Inputs 1-4

AC receptacle 100-240VAC 50/60Hz

Speaker Outputs 1-4
FX Series

Intuitive Software UI

To control FX’s powerful DSP, you’ll find easy access to its intuitive and user-friendly interface via a simple web browser (similar to AquaControl). No software to install (it’s built into the FX unit). Just connect using the Ethernet port or built-in WiFi and you’re ready to Rock & Roll. The WiFi connection allows secure ID and password protection from unauthorized use and for more advanced users, Ethernet allows custom IP settings for use on a more complex wired LAN.

Intelligent DSP

The FX Series features a powerful DSP engine that can configure to suit virtually any task, without the need for additional equipment. From processing input sources, routing and output DSP that can fine tune the sound of any speaker. Everything you need is right there. These will mix into Zones A-D and then into Outputs (2 or 4 depending on the number of amplifier channels). All models have a 4-channel DSP configuration with Input processing, Zone Processing, Output Processing, Speaker Processing and Device Settings.
## FX SERIES SPECIFICATIONS

### Optional Rack Mounts (For half rack models)

- **FA1.2RPM** – 1 or 2-amp rack-mount kit
- **FA2.2RPM** – Rear rack support kit
- **FATWB** – Flush wall/table-mount kit

### FX SERIES ARCHITECT & ENGINEERING SPECIFICATIONS

in .txt format are available in the DOWNLOADS section of [https://bit.ly/35c0UVZ](https://bit.ly/35c0UVZ)

### FX SERIES 2D AUTOCAD FILES


### USER MANUAL


### FX SERIES

**High-Density DSP Power Amplifiers**

### FX SERIES SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>FX 60.2</th>
<th>FX 125.2</th>
<th>FX 60.4</th>
<th>FX 125.4</th>
<th>FX 500.2</th>
<th>FX 500.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channels</td>
<td>2 x Lo-Z / 1 x Hi-Z</td>
<td>2 x Lo-Z / 1 x Hi-Z</td>
<td>4 x Lo-Z / 2 x Hi-Z</td>
<td>4 x Lo-Z / 2 x Hi-Z</td>
<td>2 x Lo-Z / 1 x Hi-Z</td>
<td>2 x Lo-Z / 2 x Hi-Z</td>
</tr>
<tr>
<td>Output power @ 4Ω/8Ω</td>
<td>2 x 60 W</td>
<td>2 x 125 W</td>
<td>4 x 60 W</td>
<td>4 x 125 W</td>
<td>20 x 500 W (SE) @ 4Ω/8Ω</td>
<td>20 x 500 W (SE) @ 4Ω/8Ω</td>
</tr>
<tr>
<td>Output power @ 25V</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Output power @ 70V/100V*</td>
<td>1 x 120 W</td>
<td>1 x 250 W</td>
<td>2 x 125 W</td>
<td>2 x 250 W</td>
<td>1 x 1000 W (BTI)</td>
<td>1 x 1000 W (BTI)</td>
</tr>
<tr>
<td>Power-share (up to)</td>
<td>1 x 120 W</td>
<td>1 x 250 W</td>
<td>1 x 250 W</td>
<td>2 x 250 W</td>
<td>1 x 750W SE</td>
<td>2 x 750W SE</td>
</tr>
<tr>
<td>Total System Power</td>
<td>120 W</td>
<td>250 W</td>
<td>250 W</td>
<td>500 W</td>
<td>1000 W</td>
<td>2000 W</td>
</tr>
<tr>
<td>DSP</td>
<td>4 Input x 2 or 4 Outputs: Input, Zone, Output &amp; Speaker Processing, plus General settings</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Networking</td>
<td></td>
<td>Browser-based UI Software with Ethernet &amp; WiFi connectivity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>75 W</td>
<td>75 W</td>
<td>75 W</td>
<td>75 W</td>
<td>550 W</td>
<td>1100 W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>44.5 x 220 x 208 mm (1.75 x 8.66 x 8.19 in)</td>
<td>44.5 x 220 x 296 mm (1.75 x 8.66 x 11.65 in)</td>
<td>44.5 x 220 x 296 mm (1.75 x 8.66 x 11.65 in)</td>
<td>89 x 482.5 x 320 mm (19 in x 3.5 in x 12.6 in)</td>
<td>89 x 482.5 x 320 mm (19 in x 3.5 in x 12.6 in)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>2 kg (4.4 lbs)</td>
<td>2 kg (4.4 lbs)</td>
<td>2.8 kg (6.2 lbs)</td>
<td>2.8 kg (6.2 lbs)</td>
<td>7.5 kg (16.5 lbs)</td>
<td>7.5 kg (16.5 lbs)</td>
</tr>
<tr>
<td>Output Circuitry</td>
<td>UMAC™ Class D - full bandwidth PWM modulator with ultra-low distortion</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signal To Noise-Ratio</td>
<td>&gt; 106 dB (A-weighted, 20 Hz - 20 kHz, 8 Ω load)</td>
<td>&gt; 108 dB (A-weighted, 20 Hz - 20 kHz, 8 Ω load)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THD+N (typical)</td>
<td>&lt; 0.05% (20 Hz - 20 kHz, 8 Ω load, 3 dB below rated power)</td>
<td>&lt; 0.05% (20 Hz - 20 kHz, 8 Ω load, 3 dB below rated power)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency Response</td>
<td>20 Hz - 20 kHz (+/- 0.5 dB, 8 Ω load, 3 dB below rated power)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection Circuits</td>
<td>Short circuit , DC , Undervoltage , Temperature - and Overload protection</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>UREC™ universal mains switch mode power supply with Power Factor Correction (PFC) and standby converter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 - 40 C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standby Consumption</td>
<td>&lt; 0.5 W</td>
<td>TBD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Ratings</td>
<td>1 % THD @ 120 Vac and 230 Vac</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note:*  
* 80V line mode operates @ -4 dB (~ 90 V)  
* FX125.4 and FX 500.4 may only Power-share across Ch1/2 and Ch3/4  
* Country Of Origin (COO): FX60.x and 125.x is China and FX 500.x is Thailand  

**Input Voltage/Frequency**  
Universal Mains, 100V - 240V, 50Hz - 60Hz  

**Power Supply and Protection Circuits**  
Short circuit, DC, Undervoltage, Temperature- and Overload protection  

**Accessories**  
Rack Mount Kit (Optional) Wall/Desktop Mount Kit (Optional)  

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All Specifications are subject to change.