

# C2800FDi DSP power amplifier 2x1400W, install



- Installation DSP amplifier, Euroblock connectors.
- Fully integrated professional speaker processing with FIR Drive technology.
- Market leading acoustic performance and rock solid reliability.
- Low Z and 70/100V operation and power saving standby mode.
- SONICUE Sound System Software\* makes setup and control easy.

\*) Requires firmware version 2.x or higher

## Technical specifications

Load Impedance	2 Ω	2.7 Ω	4 Ω	8 Ω
Maximum Output Power, Single Channel <sup>1</sup>	2300 W	2000 W	1400 W	700 W
Maximum Output Power, Dual Channel <sup>1</sup>	2200 W	1800 W	1300 W	650 W
Maximum Output Power, Bridged <sup>1</sup>	-	-	4400 W	2600 W
Direct Drive Load Capability <sup>2</sup>	70 V Operation		100 V Operation	
Dual Channel	2 x 1250 W (0.0 dB) <sup>3</sup>		2 x 1250 W (-3.0 dB)	
Bridged	Not recommended <sup>4</sup>		1 x 1250 W (0.0 dB)	
Maximum RMS Voltage Swing THD = 1%, 1 kHz	78.8 V			
Voltage Gain Ref. 1 kHz	32.0 dB			
THD at 900 W/4 Ω MBW = 80 kHz, 1 kHz	< 0.05%			
IMD-SMPTE, 60 Hz, 7 kHz	< 0.1%			
DIM30, 3.15 kHz, 15 kHz	< 0.05%			

Load Impedance	2 $\Omega$	2.7 $\Omega$	4 $\Omega$	8 $\Omega$
<b>Maximum Input Level</b>	+21 dBu			
<b>Crosstalk</b> ref. 1 kHz, at 100 W/4 $\Omega$	< -80 dB			
<b>Frequency Response</b> , ref. 1 kHz	10 Hz to 21 kHz ( $\pm 1$ dB)			
<b>Input Impedance</b> , Active Balanced	20 k $\Omega$			
<b>Signal to Noise Ratio Amplifier</b> , A-weighted, ref to Max. Output Power @ 8 $\Omega$	> 107 dB			
<b>Output Noise</b> , A-weighted	< -68 dBu			
<b>Output Stage Topology</b>	Class H			
<b>Power Requirements</b> <sup>5</sup>	240 V, 230 V, 120 V or 100 V; 50 Hz to 60 Hz (factory configured)			
<b>Power Consumption</b> 1/8 Maximum Output Power @ 4 $\Omega$	700 W			
<b>Mains Fuse</b>	240 V/230 V: T15AH; 120 V/100 V: T25AH			

Load Impedance	2 Ω	2.7 Ω	4 Ω	8 Ω
Protection	Audio limiters, high temperature, DC, HF, Back-EMF, Peak current limiters, Inrush current limiters, Turn on delay, Short-circuit			
Cooling	Front-to-rear, 3-stage-fans			
Ambient Temperature Limits	+5°C to +40°C (40°F to +105°F)			
Safety Class	I			
Color	Black			
Dimensions (W x H x D), mm	483 x 88 x 462.4			
Weight	16.2 kg (35.7 lb)			
Remote Power ON/GPIO	Power remote via switch, delay time selectable Floating relay contacts (show protect mode) Inputs for preset selection			

Load Impedance	2 Ω	2.7 Ω	4 Ω	8 Ω
<b>Signal Processing</b>	FIR Filters, Audio Limiters Output delay per channel, PEQ per channel, Load impedance			
<b>Accessories</b>	RMK15 (rear rack mount kit), SONICUE Sound System software			
1) Test signal for max. output power according IHF-A-202 (Dynamic-Headroom, burst 1 kHz/20 ms on/480 ms off/low level -20 dBu).				
2) The direct drive load capability is a measure for the total wattage that can be driven in 70 V/100 V operation mode. A load capability value of 1250 watts means that this amplifier can drive e.g. 50 loudspeakers at a voltage tap of 25 watts. The dB value in parentheses indicates the delta to maximum modulation. In cases where the maximum modulation is not required you can use the smaller amplifier model.				
3) C2800FDi is the recommended amplifier for 70V Direct Drive. Amplifier operated in Dual Channel mode.				
4) This operation mode is not recommended due to the efficiency reasons. Please use the next smaller amplifier for this mode.				
5) Mains power range +/- 10%, max. output might not be achieved below rated mains power.				

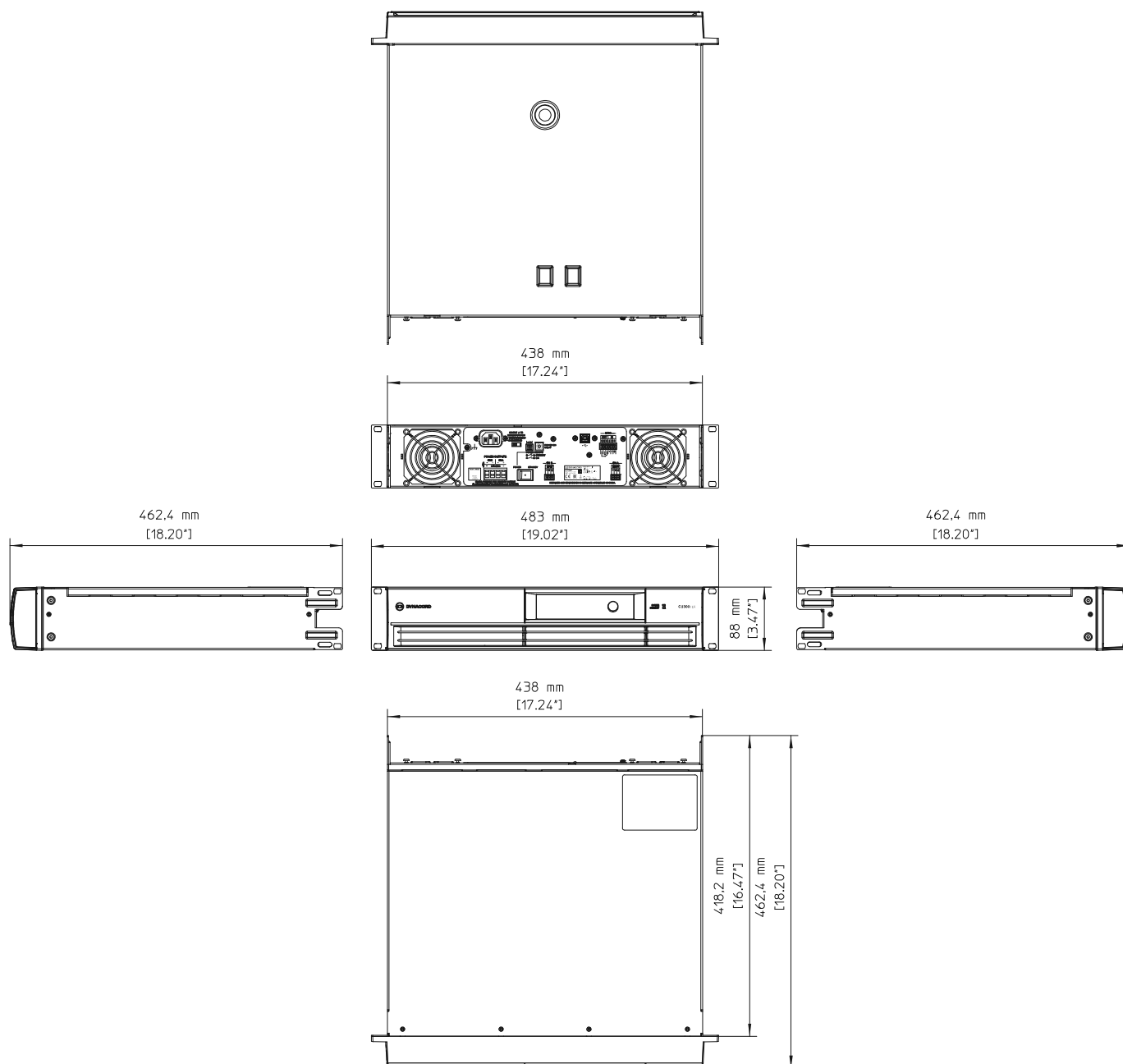


Fig. 1: Dimensions

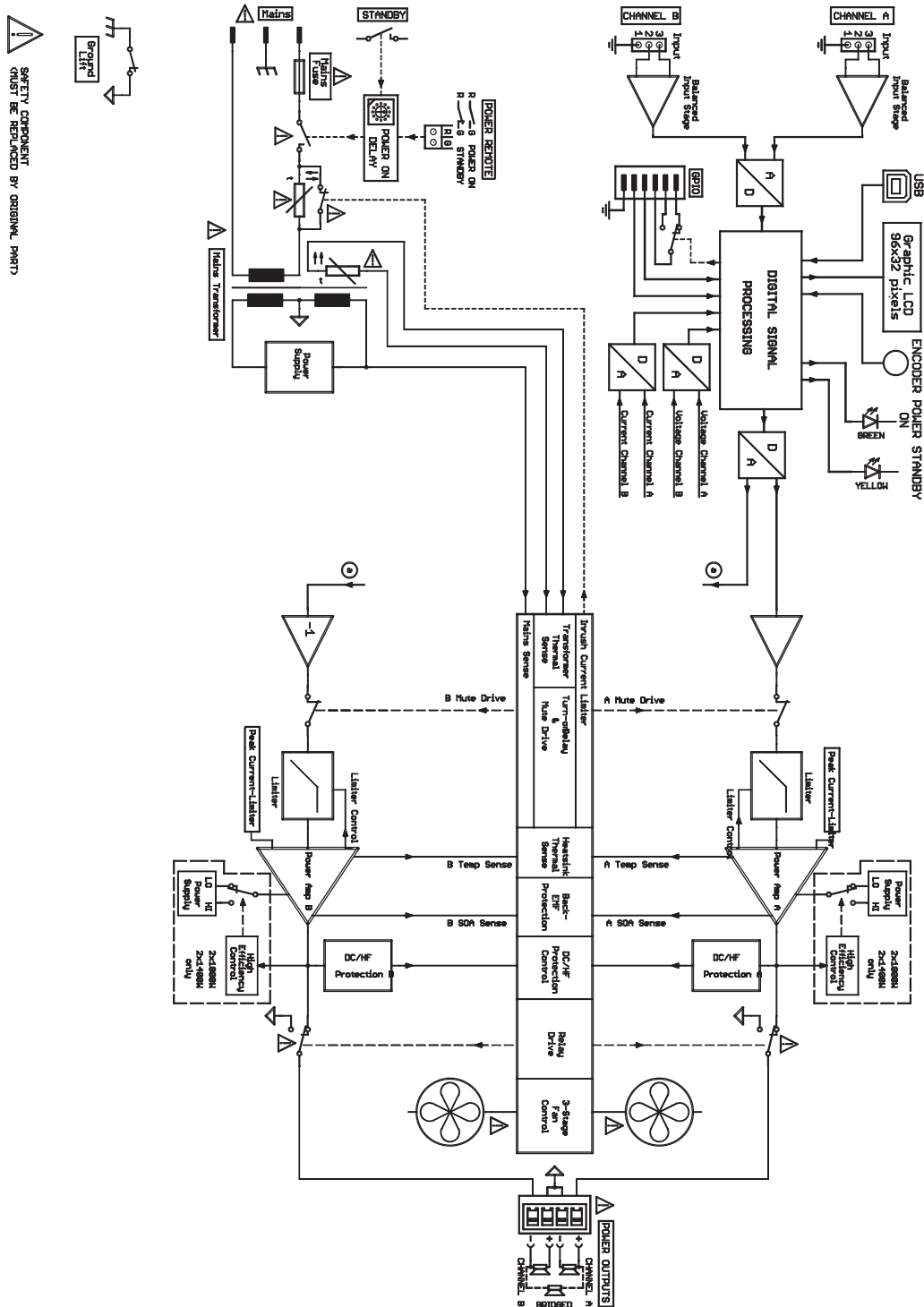


Fig. 2: Block diagram

## Ordering information

**C2800FDi-CN DSP power amplifier 2x1400W, install CN**  
 DSP power amplifier 2 x 1400W @ 4 ohms with FIR Drive,  
 70V/100V output, GPI remote power, black, Chinese  
 region  
 Order number **C2800FDi-CN | F.01U.314.190**

**C2800FDi-EU DSP power amplifier 2x1400W, install EU**  
 DSP power amplifier 2 x 1400W @ 4 ohms with FIR Drive,  
 70V/100V output, GPI remote power, black, European  
 region  
 Order number **C2800FDi-EU | F.01U.314.189**

**C2800FDi-JP DSP power amplifier 2x1400W, install JP**  
 DSP power amplifier 2 x 1400W @ 4 ohms with FIR Drive,  
 70V/100V output, GPI remote power, black, Japanese  
 region  
 Order number **C2800FDi-JP | F.01U.326.421**

**C2800FDI-UK DSP power amplifier 2x1400W, install UK**

DSP power amplifier 2 x 1400W @ 4 ohms with FIR Drive,  
70V/100V output, GPI remote power, black, UK region

Order number **C2800FDI-UK | F.01U.322.278**

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**C2800FDI-US DSP power amplifier 2x1400W, install US**

DSP power amplifier 2 x 1400W @ 4 ohms with FIR Drive,  
70V/100V output, GPI remote power, black, North

American region

Order number **C2800FDI-US | F.01U.314.191**

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**Accessories**

**DC-RMK15 Rear rackmount kit for amplifiers**

Rack Mount Kit for amplifiers, Length 15,5"; 1L/1R

Order number **DC-RMK15 | F.01U.135.402**

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