

C1800FDi DSP power amplifier 2x950W, 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	2.6 Ω	4 Ω	8 Ω
Maximum Output Power, Single Channel ¹	1600 W	1300 W	950 W	480 W
Maximum Output Power, Dual Channel ¹	1400 W	1200 W	850 W	450 W
Maximum Output Power, Bridged ¹	-	-	2800 W	1700 W
Direct Drive Load Capability²	70 V Operation		100 V Operation	
Dual Channel	2 x 1250 W (-1.5 dB)		Not available ³	
Bridged	Not recommended ⁴		1 x 1250 W (-1.5 dB)	
Maximum RMS Voltage Swing THD = 1%, 1 kHz	65.1 V			
Voltage Gain Ref.1 kHz	32.0 dB			
THD at 600 W/4 Ω MBW = 80 kHz, 1 kHz	< 0.05%			
IMD-SMPTE, 60 Hz, 7 kHz	< 0.1%			

Load Impedance	2 Ω	2.6 Ω	4 Ω	8 Ω
DIM30, 3.15 kHz, 15 kHz	< 0.05%			
Maximum Input Level	+21 dBu			
Crosstalk ref. 1 kHz, at 100 W/4 Ω	< -80 dB			
Frequency Response, ref. 1 kHz	10 Hz to 21 kHz (±1 dB)			
Input Impedance, Active Balanced	20 k Ω			
Signal to Noise Ratio Amplifier, A-weighted, ref to Max. Output Power @ 8 Ω	>105 dB			
Output Noise, A-weighted	< -68 dBu			
Output Stage Topology	Class AB			
Power Requirements⁵	240 V, 230 V, 120 V or 100 V; 50 Hz to 60 Hz (factory configured)			

Load Impedance	2 Ω	2.6 Ω	4 Ω	8 Ω
Power Consumption 1/8 Maximum Output Power @ 4 Ω	700 W			
Mains Fuse	240 V/230 V: T12AH; 120 V/100 V: T25AH			
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	15.2 kg (33.5 lb)			

Load Impedance	2 Ω	2.6 Ω	4 Ω	8 Ω
Remote Power ON/GPIO	Power remote via switch, delay time selectable Floating relay contacts (show protect mode) Inputs for preset selection			
Signal Processing	FIR Filters, Audio Limiters Output delay per channel, PEQ per channel, Load impedance			
Accessories	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) Direct drive mode not available for this configuration.				
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.				

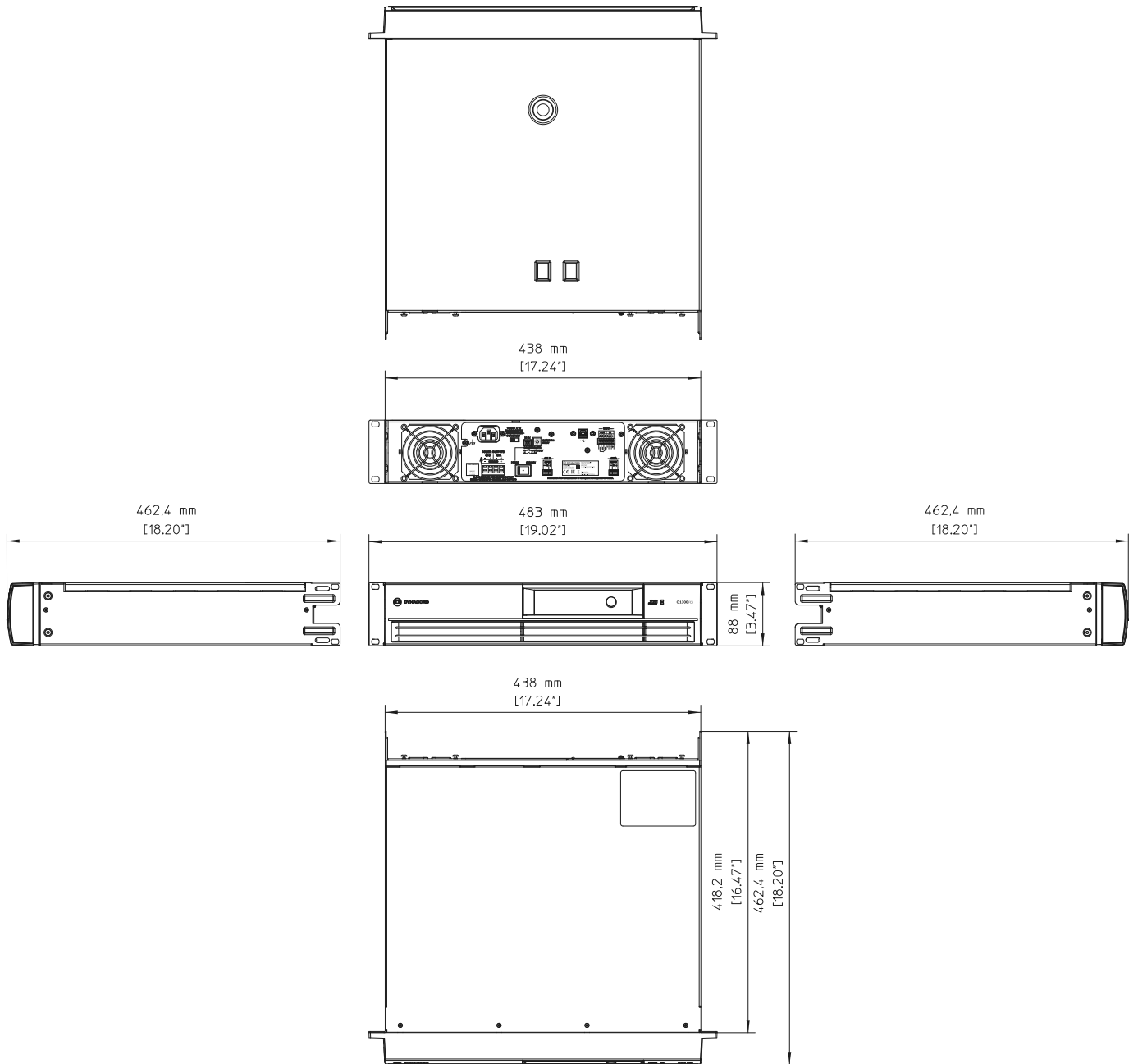


Fig. 1: Dimensions

SAFETY COMPONENT MUST BE REPLACED BY ORIGINAL PARTS

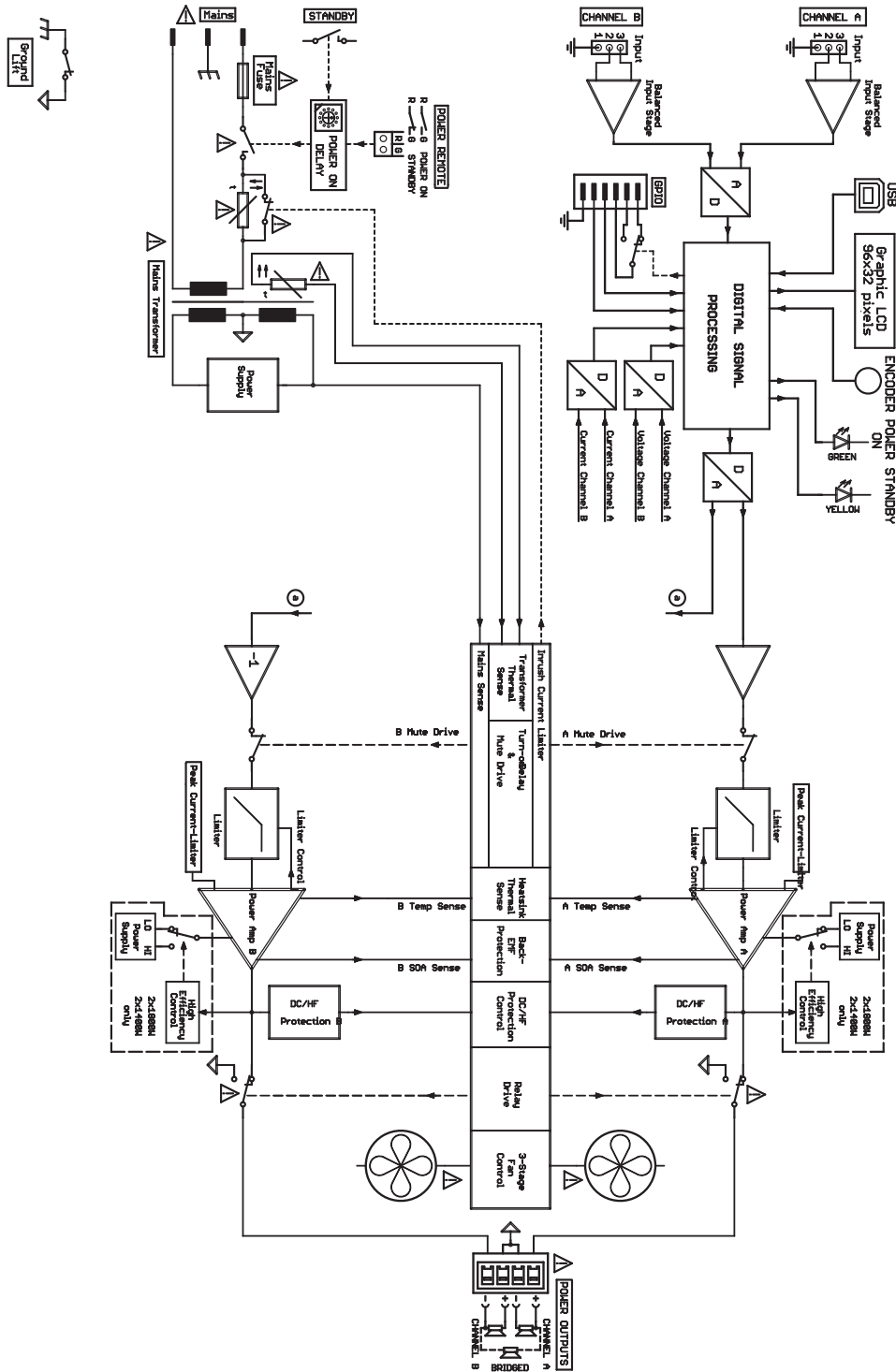


Fig. 2: Block diagram

Ordering information

C1800FDI-CN DSP power amplifier 2x950W, install CN
 DSP power amplifier 2 x 950W @ 4 ohms with FIR Drive,
 70V/100V output, GPI remote power, black, Chinese
 region
 Order number **C1800FDI-CN | F.01U.314.186**

C1800FDI-EU DSP power amplifier 2x950W, install EU
 DSP power amplifier 2 x 950W @ 4 ohms with FIR Drive,
 70V/100V output, GPI remote power, black, European
 region
 Order number **C1800FDI-EU | F.01U.314.185**

C1800FDI-UK DSP power amplifier 2x950W, install UK
 DSP power amplifier 2 x 950W @ 4 ohms with FIR Drive,
 70V/100V output, GPI remote power, black, UK region
 Order number **C1800FDI-UK | F.01U.322.277**

C1800FDI-JP DSP power amplifier 2x950W, install JP

DSP power amplifier 2 x 950W @ 4 ohms with FIR Drive,
70V/100V output, GPI remote power, black, Japanese
region

Order number **C1800FDI-JP | F.01U.326.420**

C1800FDI-US DSP power amplifier 2x950W, install US

DSP power amplifier 2 x 950W @ 4 ohms with FIR Drive,
70V/100V output, GPI remote power, black, North
American region

Order number **C1800FDI-US | F.01U.314.187**

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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