Driveflex Series

Amplifiers with DSP and Dante™

Driveflex 46
Driveflex 412
Driveflex 424
Driveflex 232

Driveflex amplifiers are compact yet powerful, with the performance required to support Fulcrum's advanced DSP while remaining efficient and easy to deploy. With amplifier control built into Fulcrum One software, Driveflex simplifies design, setup, and monitoring to ensure that every Fulcrum system performs at its highest level.

Core Features

- Compact, lightweight, 1RU rack-mount design
- Flexible channel routing and power sharing across outputs
- Integrated DSP with EQ, crossovers, limiters, and delay
- Embedded TQ Processing for accurate time-domain response and consistent performance across all Fulcrum Acoustic loudspeakers
- Network-ready with Dante/AES67 and remote monitoring
- Comprehensive protection circuitry and energy-efficient operation

Unified Workflow with Fulcrum One

- Amplifiers are uniquely recognized in Fulcrum One software for seamless setup and tuning
- Automatically loads TQ presets and loudspeaker limiters for every Fulcrum product
- Centralized monitoring and control of all amplifiers from anywhere on the network

Advanced Driveflex Features in Fulcrum One*

- Array Coverage Optimization: System-level FIR filters align and optimize multiple array elements as a single source for consistent coverage
- Array Voicing: Apply target curves (flat, warm, or other voicing profiles) across the full array with a single adjustment
- Advanced Limiters: Protection tools optimized for the dynamics of complex arrays.

** Currently supports CC, FL283T, and AHS models (more models to follow)*

Output Channels	46	412	424	232
High-Z or Low-Z	4	4	4	2

Input Channels	46	412	424	232
Analog	4	4	4	2
Dante™	4	4	4	2

Audio	46	412	424	232
Input sens @ 8 Ω with 26 dB Gain Vrms	3.54	4.91	5.72	5..76
Input sens @ 8 Ω with 29 dB Gain Vrms	2.51	3.48	4.06	4.08
Input sens @ 8 Ω with 32 dB Gain Vrms	1.78	2.46	2.86	2.88
Input sens @ 8 Ω with 35 dB Gain Vrms	1.26	1.74	2.03	2.05
SNR (20 Hz - 20 kHz @ 8 Ω - Typical) db(A)	108	110	112	112
Max input level	20 dBu			
Frequency response	20 Hz - 20 kHz ±1.0 dB, 1 W @ 8 Ω			
Crosstalk (1 kHz)	typical -70 dB			
Input impedance	20 kΩ balanced			
THD+N (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)			
SMPTE IMD (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)			
Slew Rate	> 50 V/µs @ 8 Ω, input filter bypassed			
Output impedance at 100 Hz	26 mΩ			

DSP	
AD converters	24 Bit Tandem™ @ 48 kHz 125 dBA Dynamic Range - 0.005 % THD+N
DA converters	24 Bit Tandem™ @ 48 kHz 117 dBA Dynamic Range - 0.003 % THD+N
Sample rate converter	24 Bit @ 44.1 kHz to 192 kHz 140 dB Dynamic Range - 0.0001 % THD+N
Internal precision	32 bit floating point
Latency	2.5 ms fixed latency architecture

Networking	
Standards compliance	auto-sensing Fast Ethernet (IEEE 802.3u, 100 Mbit/s)
Supported topologies	Star
Remote interface	Fulcrum One

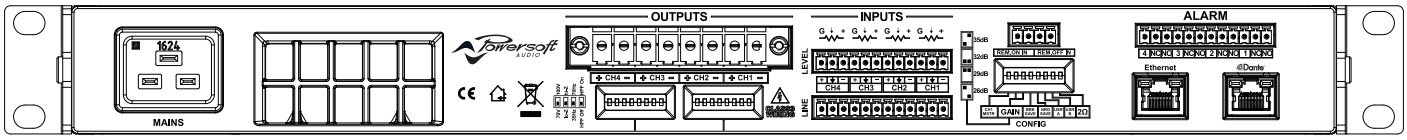
Construction	
Dimensions	19.0 x 1.74 x 14.84 in 482.6 x 44.2 x 376.8 mm
Weight	17 lb (7.7 kg)

Output Stage		46	412	424	232
Maximum output power (watts)	per channel @ 8 Ω (symmetrical)*	600	1200	1600	1800
	per channel @ 4 Ω (symmetrical)*	600	1200	2400	3200
	per channel @ 2 Ω (symmetrical)*	800	1500	1800	4600
	@ 4 Ω Bridged (symmetrical)*	1600	3000	3600	9200
	@ 8 Ω Bridged (symmetrical)*	1200	2400	4800	6400
	@ Hi-Z distributed line 100 V (symmetrical)*	600	1200	2000	4000
	@ Hi-Z distributed line 70 V (symmetrical)*	600	1200	2000	3200
	per channel @ 8 Ω (asymmetrical)**	1300	1300	1800	1900
	per channel @ 4 Ω (asymmetrical)**	1700	2600	3500	3600
	per channel @ 2 Ω (asymmetrical)**	1600	1800	1800	6000
	@ Hi-Z distributed line 100 V (asymmetrical)**	1500	2200	3000	5500
	@ Hi-Z distributed line 70 V (asymmetrical)**	1700	2100	2100	3000
Maximum unclipped output voltage @ 8 Ω		100 V_{peak}	139 V_{peak}	175 V_{peak}	175 V_{peak}
Maximum output current		45 A_{peak}	45 A_{peak}	55 A_{peak}	110 A_{peak}

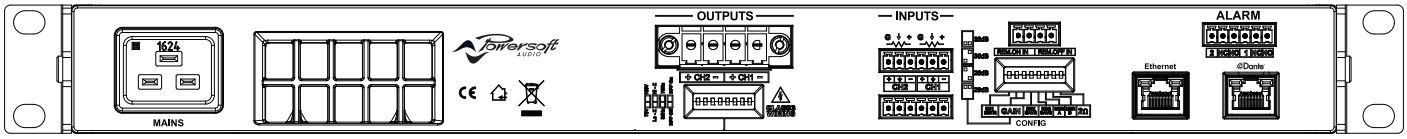
*: All channels driven with the same burst power
**: Maximum power-sharing capacity per channel

Power & Thermal			46	412	424	232	
@ 115 V	Idle	Power	31.1	31.3	34	33	W
		Current draw	0.45	0.47	0.56	0.53	A_{rms}
		Thermal loss	106	107	116	112	BTU/h
	1/8 Power @ 4 Ω	Power	405	823	1702	1073	W
		Current draw	3.7	7.7	15.6	10	A_{rms}
		Thermal loss	360	760	1713	931	BTU/h
@ 230 V	Idle	Power	31.5	31.6	34	33	W
		Current draw	0.25	0.27	0.37	0.37	A_{rms}
		Thermal loss	107	108	117	114	BTU/h
	1/8 Power @ 4 Ω	Power	405	840	1676	1068	W
		Current draw	2.1	4.3	8.2	5.3	A_{rms}
		Thermal loss	360	818	1624	913	BTU/h
Power supply			Universal regulated switch mode with PFC, SRM				
Nominal voltage (±10%)			100-240 VAC @ 50-60Hz				
Operating voltage			90-264 VAC				
AC Mains connector			IEC C20 inlet (20 A max) region-specific power cord provided				

Typical use case power consumption is expected to be at least 20% lower (likely more than 50% lower)



Driveflex 46, Driveflex 412, Driveflex 424



Driveflex 232