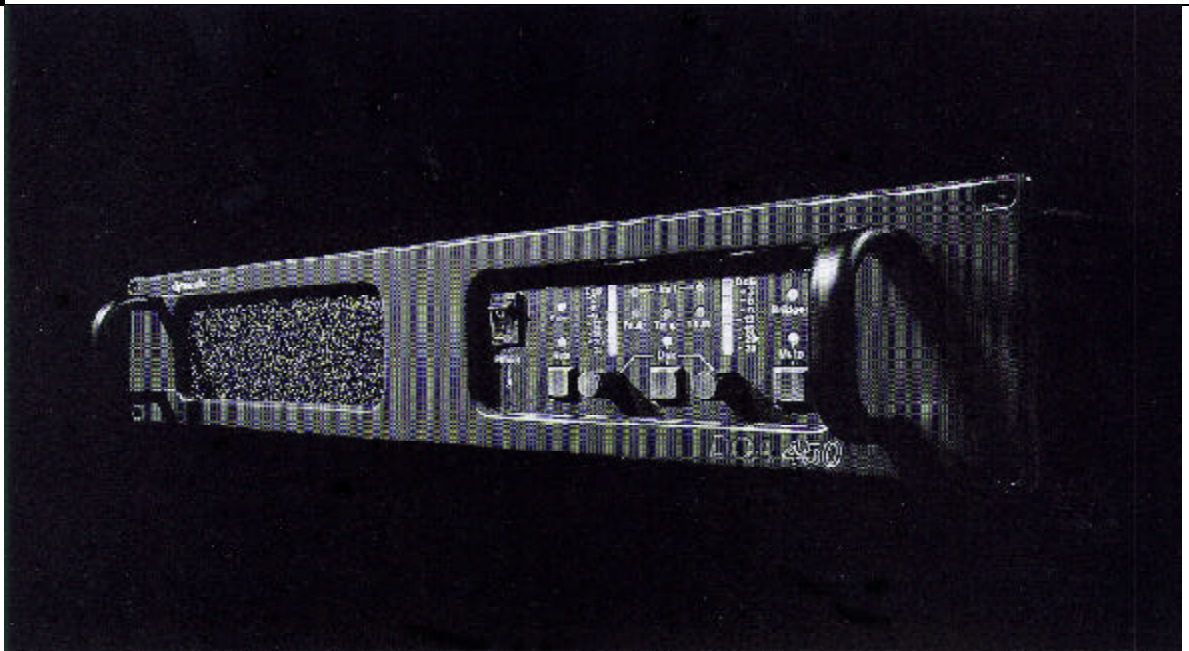




The DCA series amplifiers offer a wide range of models representing a significant advance in power amplifier design. They incorporate sophisticated digital management techniques and complimentary class AB bipolar outputs driven by a phase compensated floated driving stage. This unique design gives exceptional audio transparency and sonic performance. Dynamic parameters are monitored by the digital control system which intelligently manages load, temperature and operating parameters thereby ensuring that the amplifier produces optimum performance under all operating conditions. Special emphasis has been given to the temperature control which will adjust the amplifier's operating conditions without total shut down. Limiters have also been included as part of the digital control system, which automatically match the amplifier load. Internal 24dB/Octave Lynkwitz-Reilly band pass input filters are available, facilitating multi-amped configurations without the use of external crossovers. The amplifiers also can be fitted with an option RS485 interface to allow linking and control of up to 32 units.

Features

- Complimentary class AB bipolar outputs, with unique floating drive stage for optimum audio performance.
- No dynamic switching of audio outputs or supply voltages.
- Sophisticated monitoring of load, temperature and operating parameters. If overheating occurs, the power supply is reduced to a safe level, protecting the unit without shut down.
- Low noise vari-speed fans for quiet operation.
- User selectable clip limiter with "tight" and "easy" settings which track the supply voltages.
- Accurate Peak Level Meters indicating headroom, which automatically adjust to power supply and load. These double as level control position indicators when adjustments to level are made.
- Mute switches with fade up on release. The "power on" sequence also starts in "mute" and fades the signal up to the previous setting, after checking the system.
- Level controls can be separate or "linked". In "linked mode", adjustments are relative (both channels change by the same amount in dBs).
- "2 Ohm" and "bridged mode" indicators on front panel.
- Full DC and short circuit (serious fault) protection which automatically reconnects when the fault is cleared. Front panel LEDs indicate fault condition.
- Soft start power on sequence with full inrush protection.
- Modular construction with proprietary heatsinks for ease of serviceability.

Control and connection Details:

Front Panel:

- 2 x Rotary Encoders (level controls)
- 2 x Mute switches
- 1 x Level Control "Link" switch
- Power on/off switch
- 2 x 6 LED Peak Level Meters
- 2 x "Mute" indicators
- 2 x "Fault/DC" indicators
- 2 x "Limit" indicators
- 1 x "Link" indicator
- 1 x "2 Ohm" indicator
- 1 x "Bridged" indicator
- 1 x "Power On" indicator
- 1 x "Temp. warning" indicator

Rear Panel:

- Inputs - Female XLR 3 pin in parallel with Male 3 pin XLR for input linking
- Bridged Mono switch
- 2 Ohm/4 Ohm+ load switch
- Ground (Earth) Lift switch
- Outputs - heavy duty shrouded 4 mm binding posts
- Optional Front Panel Disable Switch

Specifications

	DCA 1250	DCA 750	DCA 650	DCA 450
Output Power (Watts RMS) per channel :				
8 ohms	700	425	350	250
4 ohms	1250	750	650	450
2 ohms	1300	750	650	450
2 ohms (in 4 ohm position)	1800			
Maximum Voltage Swing on Output Terminals (+/-)	110V	90V	80V	68V
THD @ 1 kHz rated power into 4 ohms	<0.01%	<0.005%	<0.005%	<0.005%
THD 20Hz - 20kHz rated power into 4 ohms	<0.03%	<0.03%	<0.03%	<0.03%
Input CMRR	>80 dB	>80 dB	>90 dB	> 90 dB
Hum & Noise	-105 dB	-105 dB	-105 dB	-105 dB
Sensitivity (signal that drives full output into 4 ohms)	+ 6 dBu	+ 6 dBu	+ 6 dBu	+4 dBu
Damping Factor 1 kHz., 8 ohms	>1000	>500	>500	>500
Frequency Response	20Hz - 20 kHz. (+0 / -0.5 dB)			
Input Impedance	10k ohms (electronically balanced)			
Height	3U (130mm)	2U (88mm)	2U (88mm)	2U (88mm)
Width	480mm	480mm	480mm	480mm
Depth	460mm	410mm	410mm	381mm
Weight	32 kg	23 kg	22 kgs	20.4 kg