

C25 / C45 / C475

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Power amplifiers



- Digital power supply with large power reservoir giving extremely high peak power without any bass 'sag'
- Proprietary designed progressive switching rail output
- Full high frequency power - the C-Series amplifiers will deliver their power over the entire audio bandwidth.
- Lightweight aluminum construction.
- All new low distortion limiters with adjustable threshold points for extra speaker protection.
- Sophisticated power control system linked to both the limiter and the power supply, keeping the amplifier within its operating limits at all times.
- Power Reduction Circuit (PRC) controls on rear panel, linked to the limiter threshold which allows each channel to be independently set so that different loudspeakers can be connected to each channel with safety.
- Soft start 'power on' with full in-rush protection.
- Full DC, short circuit and thermal protection, which automatically disconnects the outputs under a fault condition.
- Weighs around 11 kg.
- 5-year warranty.

Lightweight switchmode amplifiers designed to very high standards of reliability and sound quality. Intended for touring and fixed installations in a 2U chassis the range

consists of three amplifiers: the C25 delivers 2 x 1250 W at 4 Ohm, the C45 2 x 2250 W at 4 Ohm and the C475 4 x 800 W.

TECHNICAL SPECIFICATIONS	C25	C45	C475
Output power (Watt RMS):			
8 Ohm at 1kHz:	650	1200	750
4 Ohm at 1kHz:	1250	2250	825
2 Ohm at 1kHz:	2200	3200	-
Mono bridged:			
8 Ohm at 1 kHz:	2500	4400	-
4 Ohm at 1 kHz:	4400	6400	-
Power reduction control:	-2 dB / -4 dB / -6 dB	-2 dB / -4 dB / -6 dB	-3 dB@8 Ohm
THD at rated power 4 Ohm			
1kHz:	< 0.008 %	< 0.008 %	< 0.006 %
20 Hz - 20 kHz:	< 0.03 %	< 0.03 %	< 0.03 %
Input CMRR:	> 90 dB	>90 dB	>90 dB
Hum + Noise:	-105 dB	-105 dB	-105 dB
Gain (selectable internally):	+ 32 dB (factory setting) / + 26 dB / + 33 dB	+ 32 dB (factory setting) / + 26 dB / + 35.75 dB	32 dB (factory setting) / + 26 dB / + 31 dB
Sensitivity for rated output 40hm:	+ 7 dBu / + 13 dBu / + 6 dBu (1.5 V)	+ 9.75 dBu / + 15.75 dBu / + 6 dBu (1.5 V)	+ 5 dBu / + 11 dBu / + 6 dBu (1.5 V)
Damping factor at 1 kHz, 8 Ohm:	> 400	> 400	> 400
Frequency response:	20 Hz - 20 kHz - +0 / -0.5 dB	20 Hz - 20 kHz - +0 / -0.5 dB	20 Hz - 20 kHz - +0 / -0.5 dB
Input impedance (active balanced):	20 kOhm	20 kOhm	20 kOhm
Dimensions:	482 x 88 (2U) x 428 mm	482 x 88 (2U) x 428 mm	482 x 88 (2U) x 428 mm
Weight:	10.25 kg	11 kg	10.25 kg
Power requirement:	230 VAC, 15 amps max. 115 VAC, 30 amps max.	230 VAC, 15 amps max. 115 VAC, 30 amps max.	230 VAC, 15 amps max. 115 VAC, 30 amps max.
Connectors			
Inputs:	XLR 3 pin	XLR 3 pin	4x XLR 3 pin
Outputs:	4 pole SPEAKON	4 pole SPEAKON	4x 4 pole SPEAKON
Controls front panel:	2x level controls, 1x power on / off switch	2x level controls, 1x power on / off switch	4x level controls, 1x power on / off switch
Controls rear panel:	1x stereo / bridged mono switch, 4x PRC switches (2 per channel)	1x stereo / bridged mono switch, 4x PRC switches (2 per channel)	3x link switches, 2x PRC switches
Indicators:	1x power, 1x auto protect, 2x PRC, 1x bridged, 2x 5 segment level bars (-24/-12/-6/-3db/limit)	1x power, 1x auto protect, 2x PRC, 1x bridged, 2x 5 segment level bars (-24/-12/-6/-3db/limit)	1x power, 1x auto protect, 4x five segment LED metering, 2x load indicator