

Technische Informationen
*Architects and engineers
specifications*

PCL 1245

PCL 1415

PCL 1240T

PCL 1225T

PCL 1125T

PARAMUS Contractor Line

BESCHREIBUNG

Die Endstufen der PCL-Serie vereinen überragende Audio Performance mit höchster Zuverlässigkeit und Betriebssicherheit.

Zahlreiche Schutzschaltungen, die für jeden Kanal individuell vorhanden sind, schützen nicht nur die Endstufen, sondern auch die angeschlossenen Lautsprecher.

Zu diesen Protections gehören dynamische Audio-Limiter, Einschalt- und Kurzschlußstrombegrenzung und Temperaturüberwachung der Endstufenblöcke.

Zur Unterdrückung von tieffrequenten Signalen sind alle Endstufen der PCL-Serie mit verschiedenen Hochpassfiltern ausgestattet, deren Trennfrequenz über Schalter gewählt werden kann.

Die thermische Stabilität wird durch stufenlose Hochleistungslüfter mit niedrigem Geräuschpegel gewährleistet. Die Luftführung ist Front-to-Rear, was den problemlosen Betrieb in grossen und schmalen Endstufenracks ermöglicht.

Durch grosszügig dimensionierte Netzteile mit streuarmlen Ringkerntransformatoren wird ein grosser Headroom, weit oberhalb der ausgewiesenen Nennleistung, erzielt. Hochwertige Schraubsteckverbinder, die vor unbeabsichtigtem Entfernen geschützt werden können, garantieren eine sichere Verbindung von Signal- und Lautsprecherleitungen.

Modelle, die mit Hochleistungs-Ausgangstransformatoren bestückt sind, stellen zusätzlich zu den niederohmigen Ausgängen, die Lautsprecherausgänge erdfrei, für 50V, 70V und 100V Installationen zur Verfügung.

Zum Schutz vor zu hoher Spannung am Lautsprecherausgang sind diese Geräte zusätzlich mit Spannungslimitern ausgestattet.

DESCRIPTION

The DYNACORD PCL-Series power amp line combines outstanding audio performance, exceptional reliability and secure operational safety in a compact 2RU chassis design.

All models in the PCL-Series provide several protection circuits which not only prevent the power amplifier itself but also the connected loudspeaker systems from being damaged. These protections include Dynamic Audio Limiters, Inrush Current Limiter, Short Circuit Protection and Thermal Overload Protection.

All PCL-Series power amps feature different hi-pass filters with switch selectable cut-off frequency to attenuate unwanted low-frequency signals.

Infinitely variable low-noise high performance fans guarantee absolute thermal stability while keeping fan noise to a minimum. Direct "flow-thru" chassis design allows for a smooth flow of air from front-to-rear, which allows trouble-free operation even in smaller amp-racks.

Compact high density power supply units with low-leakage toroidal transformers provide extensive headroom far above the listed power rating. Premium phoenix style screw-lock connectors prevent accidental disconnection resulting in a more secure connection of audio signal and speaker cables.

All PCL-Series "T" version models are equipped with high performance output transformers also provide floating outputs for 50V, 70V and 100V installations.

These models also provide voltage limiters to protect the loudspeaker outputs against overvoltage.

SPECIFICATIONS

	PCL 1245				PCL 1415				PCL 1240T				PCL 1225T				PCL 1125T			
	8Ω	4Ω	8Ω	4Ω	8Ω	4Ω	100V	70V	50V	8Ω	4Ω	100V	70V	50V	8Ω	4Ω	100V	70V	50V	
Load Impedance	300W	480W	100W	160W	215W	430W	430W	430W	430W	135W	270W	270W	270W	270W	135W	270W	270W	270W	270W	
Maximum midband output power	225W	450W	75W	150W	200W	400W	400W	400W	400W	125W	250W	250W	250W	250W	125W	250W	250W	250W	250W	
Rated output power (*rated load) THD<0.2%, 20Hz ... 20kHz	280W	560W	120W	200W	260W	520W	500W	480W	400W	160W	320W	290W	290W	290W	160W	320W	300W	290W	290W	
Max. single channel output power Dynamic-Headroom, IHF-A	900W	-	315W	-	860W	-	-	-	6.25Ω*	540W	-	-	-	-	540W	-	-	-	-	
Maximum bridged output power THD=1%, 1kHz	44.7V	34.3dB	32.1V	30dB	44.7V	34.3dB	32.1V	30dB	59V	35.4V	32.2dB	39.1dB	36.2dB	36.2dB	35.4V	32.2dB	39.1dB	36.2dB	36.2dB	
Maximum RMS voltage swing THD=1%, 1kHz	28V/μs	28V/μs	16V/μs	16V/μs	25V/μs	25V/μs	16V/μs	16V/μs	34V/μs	18V/μs	61V/μs	41V/μs	29V/μs	29V/μs	18V/μs	61V/μs	41V/μs	29V/μs	29V/μs	
Voltage gain at 1kHz	-	530W	-	385W	-	-	545W	-	-	-	-	-	-	-	-	170W	-	-	-	
Slew rate at 1kHz	0dBu	0dBu (775mV)	0dBu	0dBu (775mV)	0dBu	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	
Power consumption at % maximum output power, lim. pink	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	
Input sensitivity at rated output power or voltage, 1kHz	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	
THD at rated output power MBW=80kHz, 1kHz	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	
IMD-SMPTE 60Hz, 7kHz	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB	
DIM30 3.15kHz, 15kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	<10Hz - 40kHz	
Crosstalk ref. 1kHz, at 10% rated output power	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	<10Hz ... >50kHz	
Frequency response -1dB, ref. 1kHz	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	>20kΩ	
Power bandwidth THD=1%, ref. 1kHz, half power	>250	>250	>250	>250	>250	>250	>250	>250	>250	>250	>250	>250	>250	>250	>250	>250	>250	>250	>250	
Input impedance 20Hz ... 20kHz, balanced	104dB	104dB	101dB	101dB	104dB	104dB	104dB	104dB	104dB	104dB	104dB	104dB	104dB	104dB	104dB	104dB	104dB	104dB	104dB	
Damping factor at 100Hz / 1kHz, 4Ω	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	120V, 230 V, 50Hz - 60Hz	
Signal to noise ratio A-weighted	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	Audio limiters, high temperature, peak current limiters, turn-on delay	
Power requirements	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	
Protection	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	483 x 88 x 405 (2Ru)	
Cooling	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	23.5kg (51.76lbs)	
Safety class	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	
Dimensions (W x H x D), mm	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	
Weight	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	28kg (57.27lbs)	16.5kg (36.34lbs)	18kg (39.65lbs)	28kg (57.27lbs)	

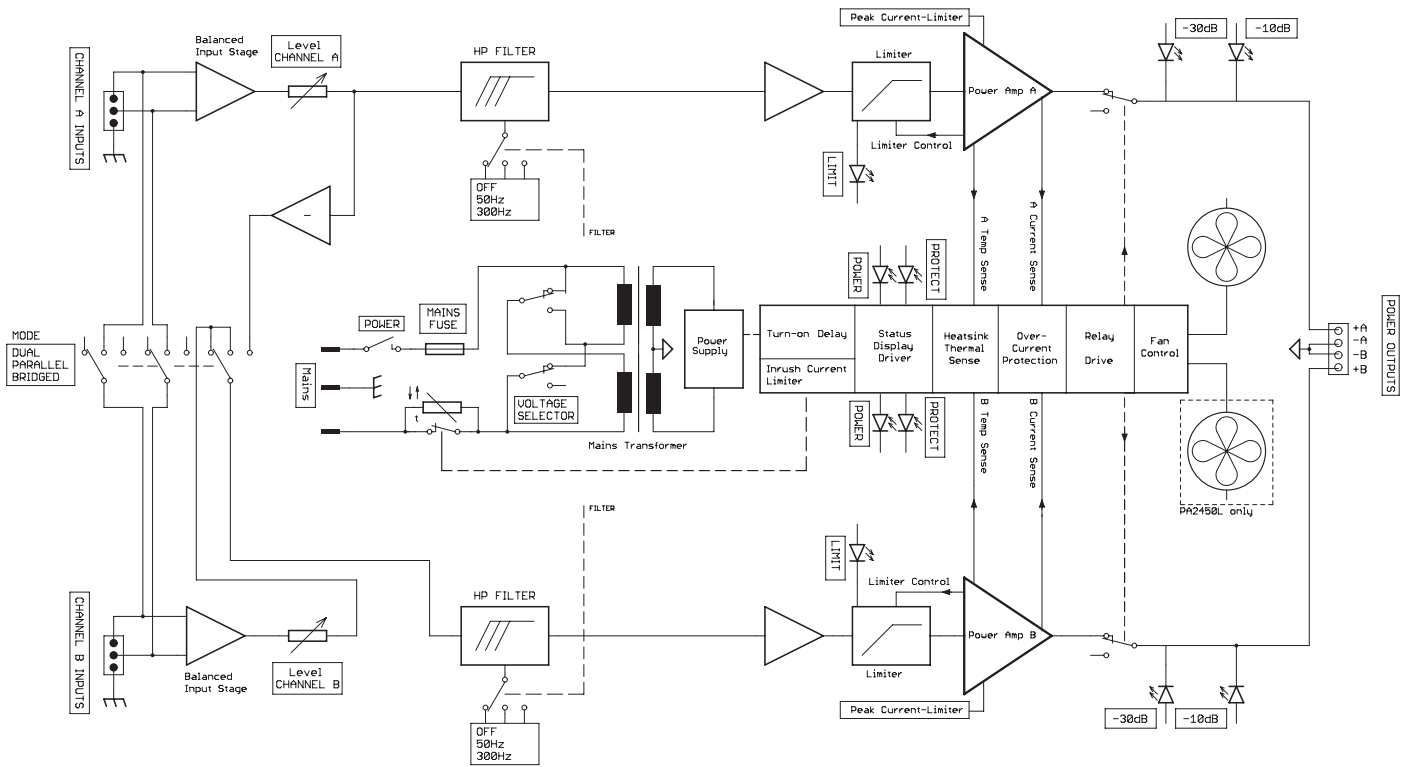
Low impedance outputs: - min. rated load for single channel operation is 4Ω. 2Ω load is not recommended.

- min. rated load for bridged operation is 8Ω. 4Ω load is not recommended.

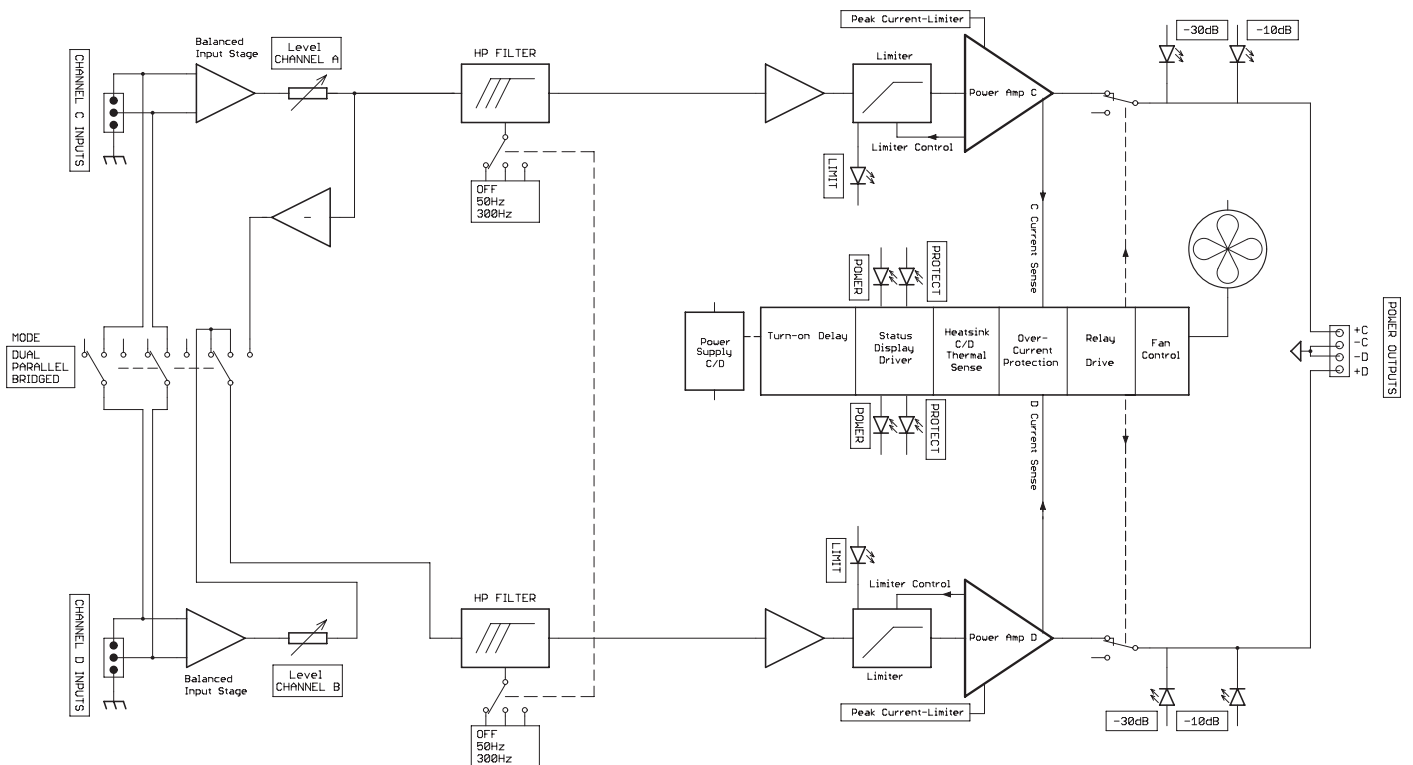
- min. rated load is rated load in column "Rated output power".

Isolated outputs:

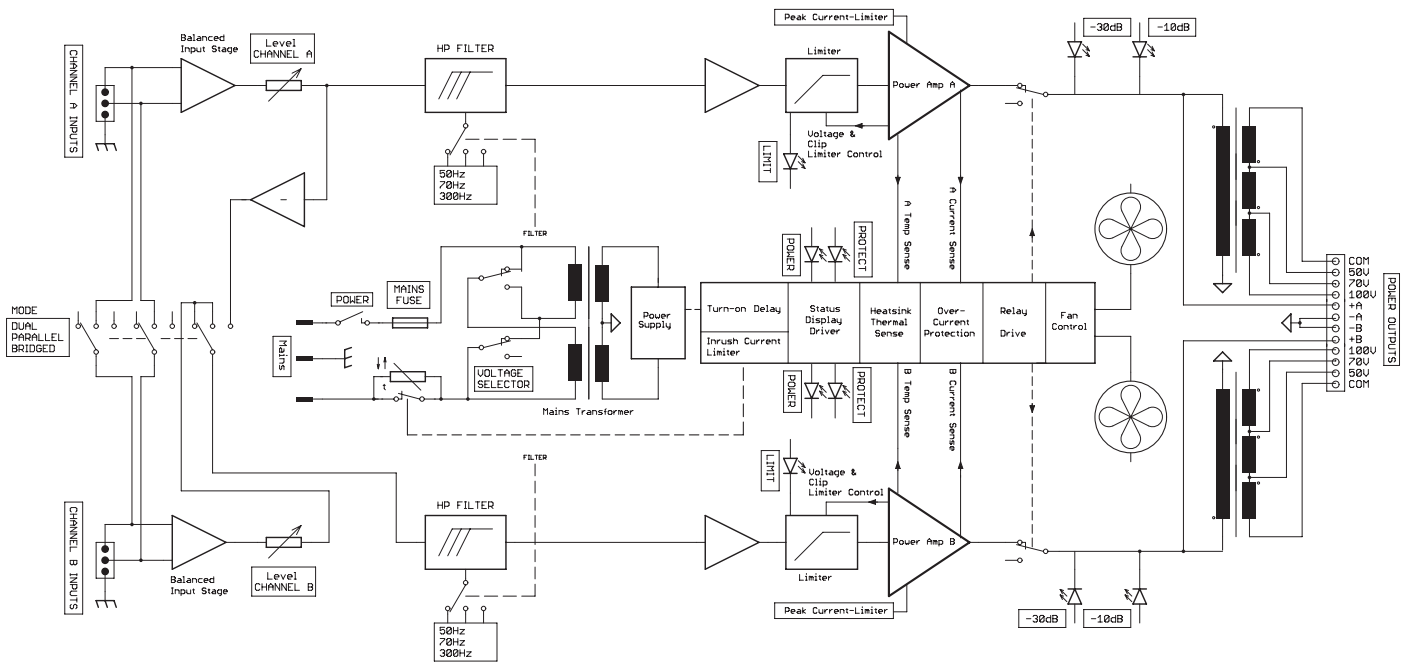
BLOCK DIAGRAM PCL 1245 / PCL 1415 CH. A/B



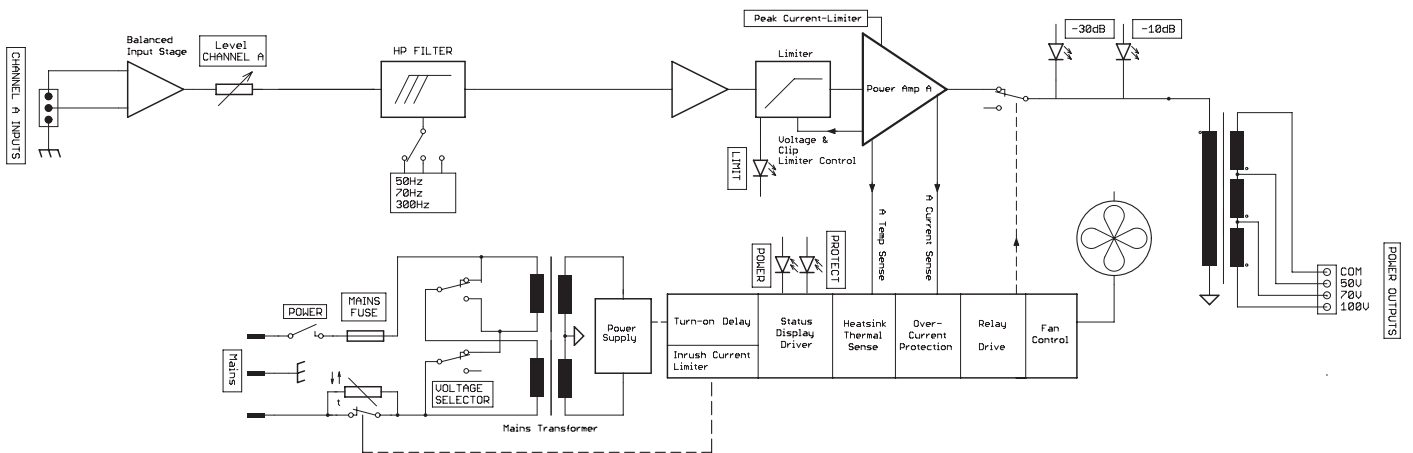
BLOCK DIAGRAM PCL 1415 CH. C/D



BLOCK DIAGRAM PCL 1240T / PCL 1225T

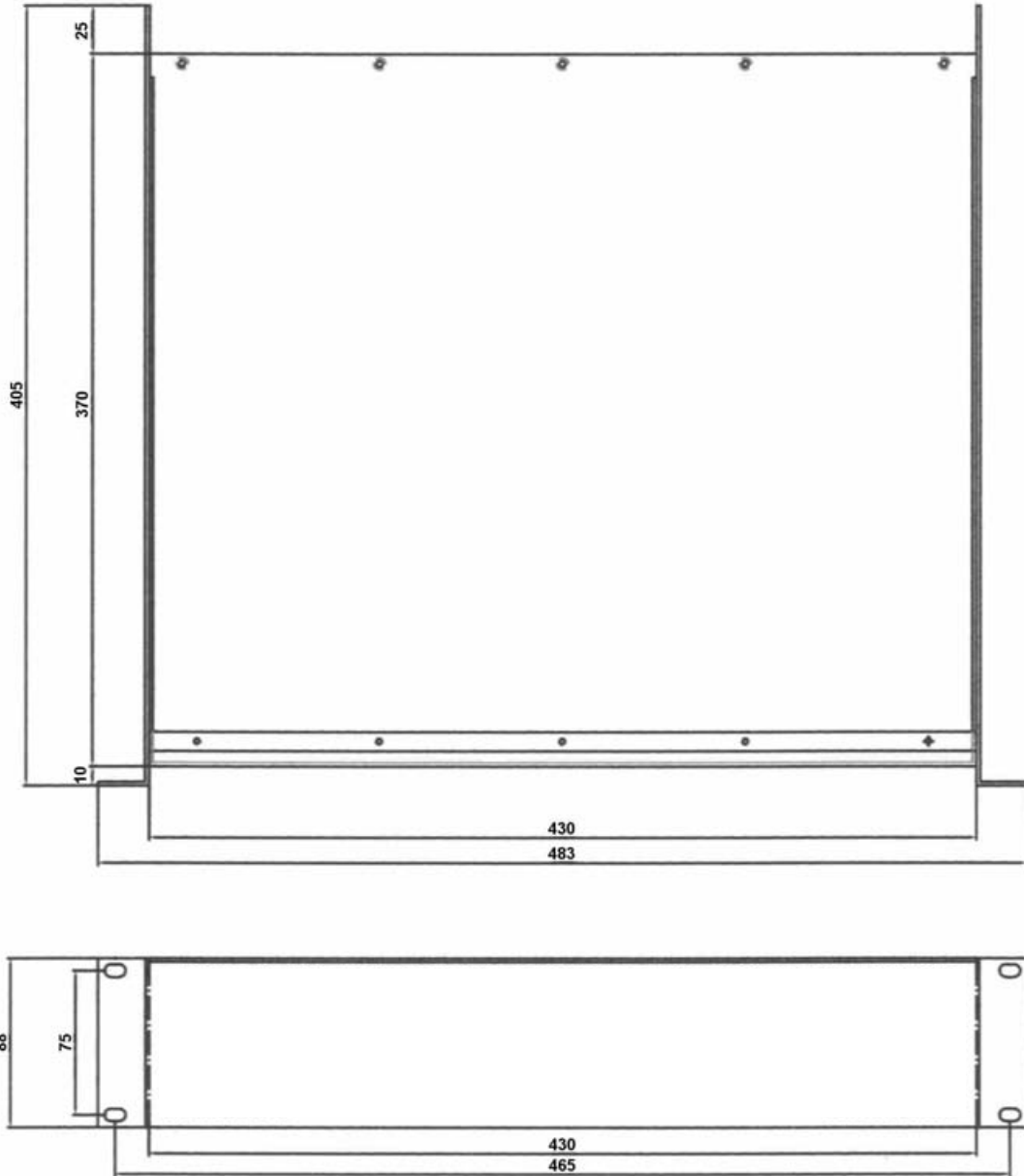


BLOCK DIAGRAM PCL 1125T



DIMENSIONS

PCL series amplifier dimensions in mm.



USA Telex Communications Inc., 12000 Portland Ave. South, Burnsville, MN 55337, Phone: +1 952-884-4051, FAX: +1 952-884-0043
Germany EVI AUDIO GmbH, Hirschberger Ring 45, D 94315, Straubing, Germany Phone: 49 9421-706 0, FAX: 49 9421-706 265

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