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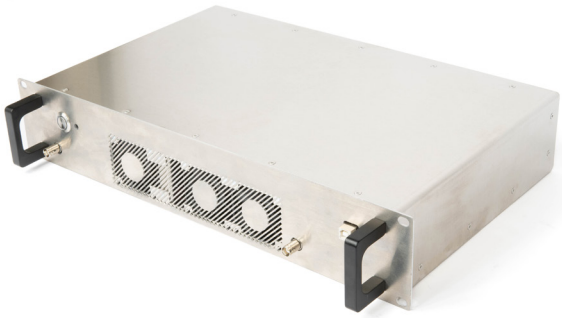
KEY FEATURES

- 0.5 A permanent output current
- 1 A max output current
- [-20 V; 150 V] output voltage range
- Low noise / 90 dB SNR
- Fully protected piezo amplifier
- 2 Push Pull channels configuration availlable in option



NON CONTRACTUAL PICTURE

PARAMETER	TYPICAL VALUE	UNIT
General		
Function	Linear Power Amplifier for Piezo Actuators	
Number of channels (1)	1, 2 or 3	
Command Input		
Control Input voltage	-1 ... +7.5	V
Control Input impedance	22.2	kΩ
Output		
Output voltage	-20 ... +150	V
Permanent output current (2)	± 500	mA
Maximum output current (3)	± 1 000	mA
Maximum output load	40	µF
Power Supply		
Supply Voltage	85VAC - 265	VAC
Supply frequency	50-60	Hz
Max. supply power (4)	450	W
Gain		
Gain	20	V/V
Gain error	±1	%
Gain linearity error	0.1	%
Dynamic performance		
Small signal bandwidth (-3dB) (5)	25	kHz
Power bandwidth	See chart	Hz
Signal to Noise Ratio (6)	90	dB

ANNOTATIONS

(1) Possibility to have 2 channel and one fixed 130 V push-pull rail (-PP option)

(2) Electronically limited

(3) EPC Enhanced Peak Current - During 1.2 ms with a max repetition rate of 20 ms - Internally limited - see specific application note

(4) With 3 amplifier

(5) With 2.2 µF

(6) Computed as RMS output signal / RMS output Noise floor. [1; 2000]Hz

(7) exept for 4 th order notch, filter are combinable

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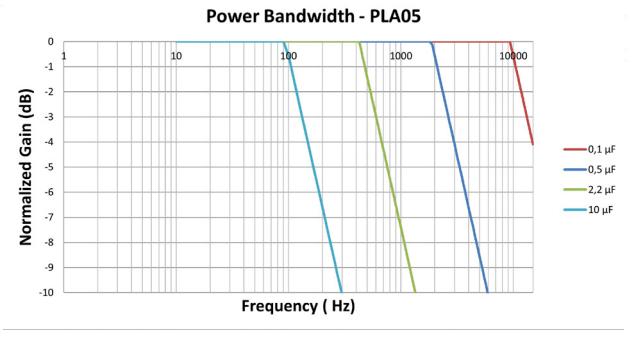
PARAMETER	TYPICAL VALUE	UNIT
> **Controller**	with -UC option	
Digital resolution	16	bit
Sampling rate	50	ksps
Control strategy	Tunable PID + Stabilizing filters	
Stabilising filters (Tunable) (6)	2nd order lowpass / 2nd notch / 4th order notch	
External sensor input	-10 .. +10	V
Internal Strain gauges conditioner Gain	961	V/V
Reference output voltage (soft selectable)	2.5 ; 5 ; 10	V
Maximum reference output current	30	mA
Output filtering (soft selectable)	100Hz ; 1kHz ; 10kHz ; 40kHz	

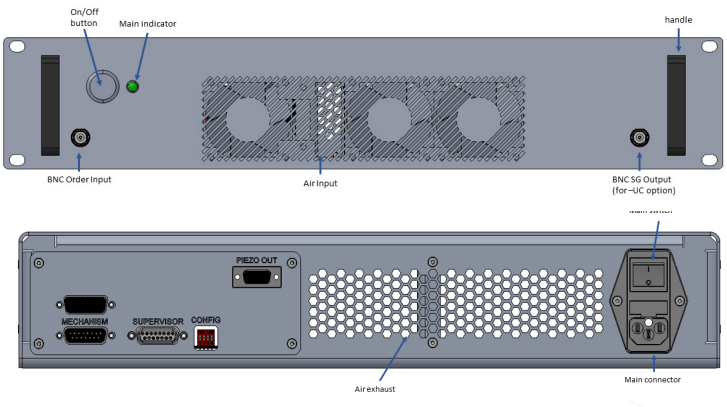
MECHANICAL

PARAMETER	TYPICAL VALUE	UNIT
Mass	10	kg
Dimension	2U 19" 284mm depth	mm3
Cooling	Forced convection	
Operating temperature range (6)	5 ... 40	°C

INTERFACES

> **Power plug**	IEC C14 Inlet with switch
> **Order input**	BNC and SubD connector
> **Piezo actuator Output**	SubD connector
> **Computer interface**	USB tybe B





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