

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 available in option
- > CE marking



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) except for 4 th order notch, filter are combinable

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 type B

