

APPLICATIONS

- > 1 channel piezo drive
- > High accuracy positioning
- > High frequency applications

KEY FEATURES

- > 2.5 A continuous output
- > 5 A peak output
- > [-20 V;150 V] output voltage range
- > Low noise SNR 85 dB
- > Fully protected piezo amplifier

RELATED PRODUCT

- > Piezo actuators and stages



NON CONTRACTUAL PICTURE

PARAMETER	TYPICAL VALUE	UNIT
> General		
Function	Linear power amplifier for piezo actuators	
Number of channels	1	
> Command Input		
Control Input voltage	-1 ... +7.5	V
Control Input impedance	22.2	kΩ
> Output		
Output voltage	-20 ... +150	V
Continuous peak output current ⁽¹⁾	± 2 500	mA
Transient peak output current ⁽²⁾	± 5000	mA
Maximum output load	400	μF
> Power Supply		
Supply Voltage	85VAC - 265	VAC
Supply frequency	50-60	Hz
Max. supply power	450	W
> Gain		
Gain	20	V/V
Gain error	±1	%
Gain linearity error	0.1	%
> Dynamic performance		
Small signal bandwidth (-3dB) ⁽³⁾	30	kHz
Power bandwidth	See chart	Hz
Signal to Noise Ratio ⁽⁵⁾	85	dB

ANNOTATIONS

(1) Electronically limited

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

(3) With 2.2μF

(5) Computed as RMS output signal / RMS output Noise floor. [1; 200]Hz

(6) except for 4th order notch, filter are combinable

CONTROLLER

with -UC option

PARAMETER	TYPICAL VALUE	UNIT
Digital resolution	16	bit
Sampling rate	100	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	

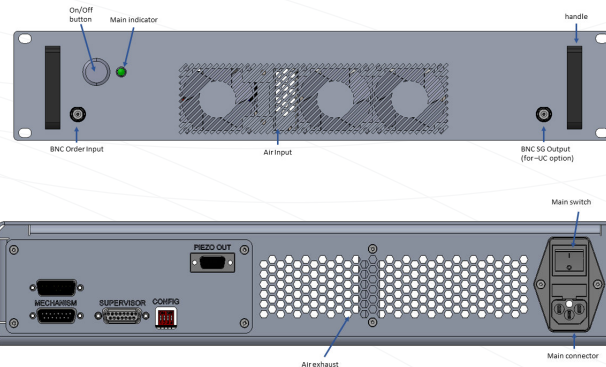
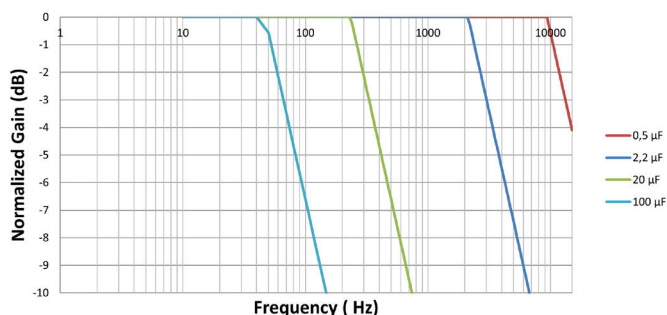
MECHANICAL

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

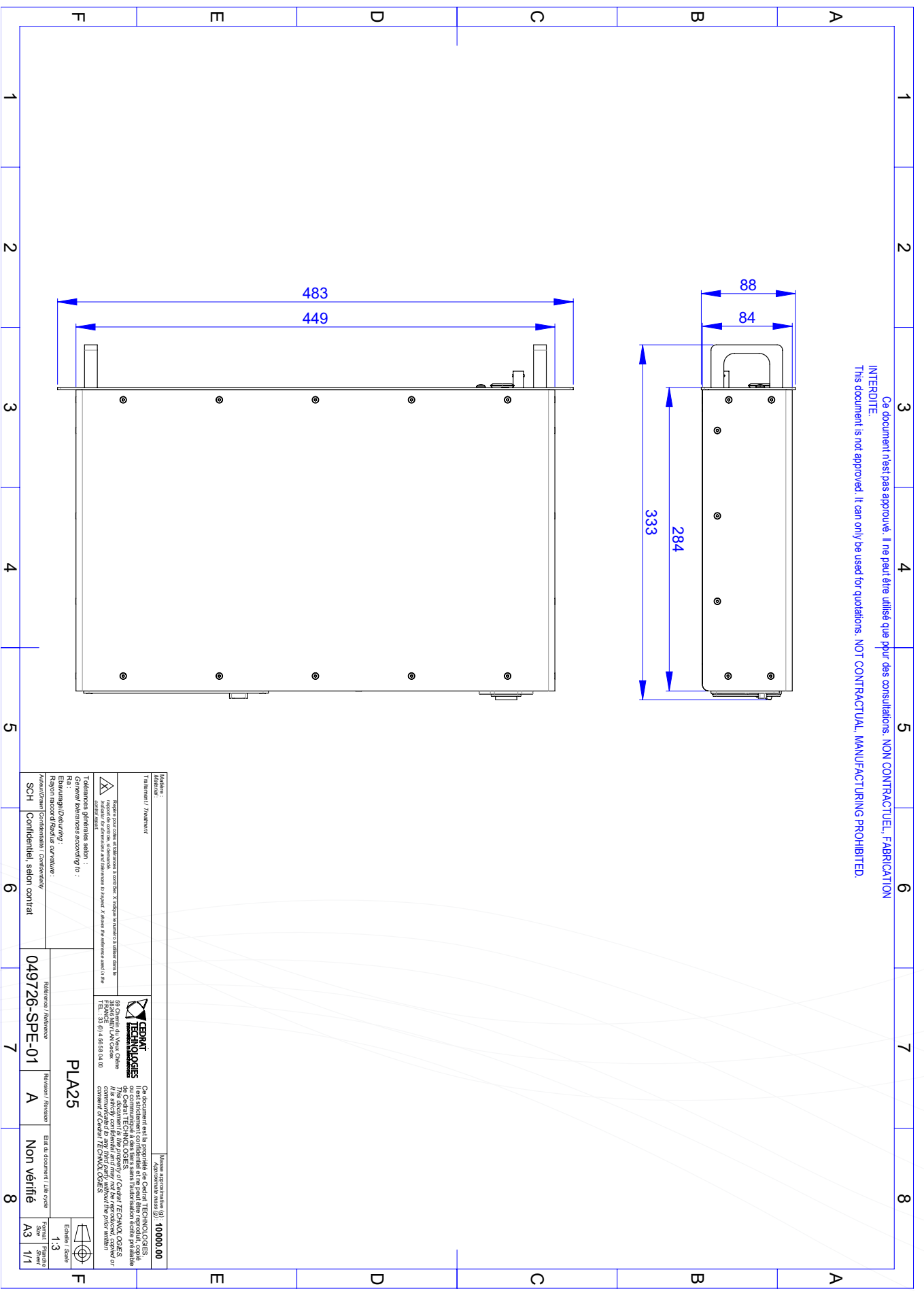
INTERFACES

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

Power Bandwidth - PLA25



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