



Features :

- wide bandwidth : from 10 kHz up to more than 10 MHz
- very high slew rate : more than 36 kV/ μ s for the ± 400 V model (US-TXP-3-C)
- linear signal amplification with ultra-low distortion : THD <
- works over the whole frequency range into heavy capacitive loads : up to more than 10 nF
- high voltage output : up to 800 V_{p-p} (± 400 V)
- high current output : more than 2 A over the whole frequency range
- digital input for shutdown control : CMOS or TTL logic, 1 μ s switching time between active and high impedance output states; this is useful for echo experiments. By default the amplifier is on active state.
- output impedance : 50 Ohm output impedance;
- output protected against : Short-circuit / Over load / Over temperature
- four quadrant output operating modes possible: source mode (the power amplifier provides power to the load; this is the classical use) and sink mode (the power amplifier sinks power from the load; current and voltage are in reverse polarities)

Safety recommendations :

This product can deliver an output electrical signal of very high voltage (up to over 1 kV) with a current of more than 1 A.



THIS PRODUCT CAN THEN PRODUCE AT ITS OUTPUT AN ELECTRICAL SIGNAL WHICH REPRESENTS A HIGHLY DANGEROUS RISK OF ELECTRICAL SHOCK WHICH CAN BE LETHAL FOR THE USER IN CASE OF UNSAFE USE OF THE PRESENT PRODUCT.



ONLY QUALIFIED AND EXPERIMENTED USER SHOULD BE AUTHORIZED TO USE THIS PRODUCT.

THIS PRODUCT IS INTENDED FOR RESEARCH PURPOSES ONLY AND IN AN INDOOR CLASS II ENVIRONMENT.

THE POWER SUPPLIED TO THIS PRODUCT MUST BE FROM A MAINS CONNECTION WITH PROTECTIVE EARTH.

IT IS ADVISED TO TURN OFF THIS AMPLIFIER BEFORE CONNECTING OR REMOVING CABLES TO OR FROM THE HIGH VOLTAGE OUTPUT.

Spécifications :

Input analog signal

input connector	BNC
Input protected against over-voltage	up to ± 500 V and sustaining 2 W average power
Input impedance	50 Ohm
Input voltage useful range	± 2 V
Input coupling	AC

Input digital shutdown

input connector	BNC
Input protected against over-voltage	up to ± 500 V and sustaining 2 W average power
Input impedance	50 Ohm
Input voltage	TTL or CMOS logic : active on high state ; inverse logic option available
Switching time between active state and sleeping state	1 μ s
Input coupling	DC

Output

Output connector	BNC ground is floating with respect to the earth of the power supply line
Output protections	against overcurrent and short-circuit
full power bandwidth	10 kHz to more than 10 MHz

	US-TXP-3-B	US-TXP-3-C
Maximum output voltage	+/- 200 V	+/- 400 V
Maximum continuous output current	1 A rms	1 A rms
Maximum peak output current	4 A	4 A
Maximum continuous Output power into a 50 Ohm load	100 W rms	200 W rms
Maximum peak Output power into a 50 Ohm load	200 W	800 W
Voltage gain	100	200

Slew rate	18 000 V/ μ s	36 000 V/ μ s
output internal impedance	50 Ohm	50 Ohm
Total Harmonic distortion	-70 dB @ 100 kHz	-70 dB @ 100 kHz
Input referred noise density	10 nV/sqrt(Hz)	10 nV/sqrt(Hz)
Output noise (20 MHz bandwidth)	5 mV rms	10 mV rms
source and sink mode functionalities	Yes	Yes

General

Operating temperature range	10°C to 40°C	
Power supply	Universal 90V/264V AC ; 47Hz/63Hz	
Dimensions	19 ” rack ; 3 U height ; 39 cm depth (48.2 cm x 39 cm x 13.3 cm)	
	US-TXP-3-B	US-TXP-3-C
Power consumption (max)	580 W	1 120 W
Power factor	0,98	0,96
Weight	7 kg	9 kg

Safety

In compliance with European Standard IEC 61010-1.

Warranty

3 years Part and Labor

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