

## PRODUCT OVERVIEW

Elgar's Ultra Precision Line Conditioners (UPLC) provide the cleanest, most precise AC power available, eliminating high-speed AC line and load transients as well as input distortion. These versatile instruments have a response time of less than 20 microseconds (5000 times quicker than the fastest conventional regulating line conditioners). Output harmonic distortion is less than 0.2% for up to 10% input distortion.

Elgar UPLC's are housed in a rackmountable chassis and can be used in benchtop applications as well as mounted in 19" cabinets. Front panel indicators and controls include: meters to monitor input and output voltage and output load current, an overload indicator and an input circuit breaker.



6006B UPLC



3006B UPLC

## FEATURES AND BENEFITS

### SUPPORTS HIGH CREST FACTOR LOADS

Elgar UPLC's can provide low distortion power for nonlinear loads which draw high peak currents. They are ideal power sources for critical loads that contain switching DC power supplies.

### VOLTAGE REGULATION

The  $\pm 0.025\%$  no load to full load regulation exceeds the demands of almost any voltage sensitive device.

### FAST RESPONSE TIME

The less than 20 microsecond response time reduces load-created transients to maintain clean, stable power into groups of loads whose varying power demands would normally interfere with each other.

### TRANSIENT SUPPRESSION

The 20 microsecond response time coupled with high frequency transient suppression circuits provide 1000:1 ratio reduction of high frequency power line transients, which can cause erratic operation and computer failures.

### APPLICATIONS

- Data acquisition systems
- Scanning electron microscopes
- Gas chromatography
- Digital memory systems
- Equipment radiological scanning
- General DP equipment
- Metrology labs

Model Selection												
Model	Output						Input		Physical			
	Power, VA		Current				Voltage Range*	Current A Max	Height and Depth (in/mm)		Weight (lbs/kg)	
	Continuous	Peak	Voltage** VRMS	ARMS	Peak	Freq. Hz						
6006B	1000	5000	115	8.7	30.7	57-63	95-135 †	15.0	5.25/133	H	78/35.5	Net
									16/406	D	85/39	Ship
6225B	1000	5000	220	4.5	16.0	47-53	180-260	8.5	5.25/133	H	78/35.5	Net
									16/406	D	85/39	Ship
3006B	3000	15000	115	26.0	92.0	57-63	95-135†	46.0	12.25/311	H	152/69	Net
									20/508	D	160/73	Ship
3225B	3000	15000	220	13.6	48.0	47-53	180-260	25.0	12.25/311	H	152/69	Net
									20/508	D	160/73	Ship
5006B	5000	25000	115	43.5	154.0	57-63	95-135†	75.0	24.5/622	H	291/132	Net
									20.2/513	D	345/157	Ship
5225B	5000	25000	220	22.7	80.3	47-53	180-260	43.0	24.5/622	H	291/132	Net
									20.2/513	D	345/157	Ship

\* Input voltage ranges selected by 3 position tap switch  
 95-115, 105-125, 115-135V for 95-135V range  
 180-220, 200-240, 220-260V for 180-260V range  
 200-240, 220-260, 240-280V for 200-280V range  
 †115 output with 230V input available. Add -230 to model number, e.g. 3006B-230  
 \*\*100V/115V output with 100V input available. Consult factory.

## SPECIFICATIONS

**Input/Output Isolation:** 100 db (60 Hz)

**Output Distortion:** 0.2% THD maximum for up to 10% input harmonic distortion

**Line Regulation:** ±0.025% for ±10% input AC line variation

**Load Regulation:** ±0.025% for 100% load change into a unity to zero lagging or leading PF load

**Temperature Coefficient:** -0.01% per °C

**Peak Amplitude Stability:** ±0.01% (cycle-to-cycle)

**Amplitude Drift:** ±0.05% 24 hours constant line, load and temperature

**Impulse Setting Time:** Less than 20s

**Ambient Operating Temperature:** 0° to +55°C

**Overload Indication:** Front panel lamp lights when rated output current is exceeded.

**Overload Protection:** Continuous overload actuates front panel circuit breaker.

**Metering:** Reads input voltage, output voltage and output current

**Cooling:** Forced air