

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						Height and Depth (in/mm)		Weight (lbs/kg)	
	Continuous	Peak	Voltage** VRMS	ARMS	Peak	Freq. Hz	Voltage Range*	Current A Max				
6006B	1000	5000	115	8.7	30.7	57-63	95-135 †	15.0	5.25/133 16/406	H D	78/35.5 85/39	Net Ship
6225B	1000	5000	220	4.5	16.0	47-53	180-260	8.5	5.25/133 16/406	H D	78/35.5 85/39	Net Ship
3006B	3000	15000	115	26.0	92.0	57-63	95-135†	46.0	12.25/311 20/508	H D	152/69 160/73	Net Ship
3225B	3000	15000	220	13.6	48.0	47-53	180-260	25.0	12.25/311 20/508	H D	152/69 160/73	Net Ship
5006B	5000	25000	115	43.5	154.0	57-63	95-135†	75.0	24.5/622 20.2/513	H D	291/132 345/157	Net Ship
5225B	5000	25000	220	22.7	80.3	47-53	180-260	43.0	24.5/622 20.2/513	H D	291/132 345/157	Net 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: $\pm 0.025\%$ for $\pm 10\%$
input AC line variation

Load Regulation: $\pm 0.025\%$ for 100% load
change into a unity to zero lagging or
leading PF load

Temperature Coefficient: -0.01% per °C

Peak Amplitude Stability: $\pm 0.01\%$
(cycle-to-cycle)

Amplitude Drift: $\pm 0.05\%$ 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