

# ELPA-3260

## AC ELECTRONIC LOAD WITH ADJUSTABLE PF



POSITIVE PROBLEM SOLVING **+ =**

While primarily aimed at AC applications this series of Electronic loads can also be used for DC testing. A comprehensive feature set is provided as standard.

Stored within the units non-volatile memory is a waveform bank. When in constant current operation the user can select between sine, square and DC waveforms. Peak currents can be simulated with the crest factor mode. A leading or lagging power factor can be set with adjustments from unity to between 0.85 and 0.3. The desired wave can be recalled from the front panel or selected via the GPIB and RS232 interfaces.

- + Sine, Step & Squarewave Loading Functions
- + Adjustable Leading & Lagging Power Factor
- + GPIB & RS-232 with LabVIEW Drivers
- + Last Setting Memory Function
- + CC, CR & Crest Factor Mode
- + DC to 400Hz Operation

# ELPA-3260

## AC ELECTRONIC LOAD WITH ADJUSTABLE PF

## FURTHER DETAILS

The loads can also be operated in constant resistance or linear CC mode. To aid production testing upper and lower limits can be set with GO/NG indication. The dual 4½ digit displays simultaneously display the voltage and current taken by the load. A wattmeter and VAmeter are also provided.

An analogue output is provided on the front panel for connecting to a scope so that the actual load current can be viewed. These AC Loads are used in many production test and laboratory applications. With their ability to sink step and squarewaves the ELPA-3260 are particularly suitable for Inverter, AVR & UPS testing.

### SELECTION TABLE

Part Number	Max Power	Maximum Voltage	Current Range	Dimensions ( W × H × D)
ELPA-3260	1200VA	300Vrms / 300 Vdc	0 - 12Arms	19" × 4U × 445mm
ELPA-3261	1800VA	300Vrms / 300 Vdc	0 - 18Arms	19" × 4U × 445mm
ELPA-32601	2400VA	300Vrms / 300 Vdc	0 - 24Arms	19" × 15U × 445mm*

\* Unit is mounted, shipped and cabled in a cabinet

### OPTIONS

CODE	DESCRIPTION
/0001	1m IEEE488.2 cable
/0002	2m IEEE488.2 cable
/0003	2m RS-232 cable
/9931	Remote controller



## TECHNICAL DATA

	ELPA-3260	ELPA-3261	ELPA-32601
Current Monitor (Isolated)	3A / V	4.5A / V	6A / V
Weight	18.5kg	21.5kg	37kg
Line Input	115 / 230Vac ± 10 at 50/60Hz		

### CC & LINEAR CC MODE

Range 1	0 - 6Arms	0 - 9Arms	0 - 12Arms
Range 1 Resolution	1.5mA	2.25mA	3mA
Range 2	6 - 12Arms	9 - 18Arms	12 - 24Arms
Range 2 Resolution	3mA	4.5mA	6mA
Low Current Accuracy	<600mA is ± 2% of [setting + range]	<900mA is ± 2% of [setting + range]	<1200mA is ± 2% of [setting + range]
Standard Accuracy	± [0.5% of reading + 1% of range]		
Standard Accuracy at 50 / 60Hz	± 0.5% of [setting + range]		
Crest Factor (CC Mode only)	√2 to 3.5   1.5 to 1.9   3.0 to 3.4		
Crest Factor Resolution	0.5   0.1   0.1		
Frequency Range	CCMode: DC, 40-400Hz, LIN Mode: DC - 400Hz		

### CR MODE

Range 1	5 - 20kΩ	3.333 - 13.332kΩ	2.5 - 10kΩ
Range 1 Resolution	0.013mS	0.019mS	0.025mS
Range 2	20 - 80kΩ	13.332 - 53.332kΩ	10 - 20kΩ
Range 2 Resolution	0.052mS	0.076mS	0.1mS
Accuracy	± [0.5% of reading + 2% of range]		
Accuracy at 50 / 60Hz	± 0.5% of [setting + range]		
Frequency Range	CR Mode: DC - 400Hz		

### 4½ DVM

Range & [Resolution]	300V [0.1V]		
Accuracy	± [0.5% of reading + 0.2% of range]		

### 4½ DAM

Range & [Resolution]	0 - 12A [1mA]	0 - 18A [1mA]	0 - 24A [10mA]
Accuracy	± 0.5% of [reading + range] at 50 / 60Hz only otherwise ± [0.5% of reading + 2% of range]		

### WATT & VA METER

Range & [Resolution]	1200W [100mW]	1800W [100mW]	2400W [100mW]
Accuracy	± 0.5% of [reading + range]		
Accuracy at 50 / 60Hz	± 0.5% of [reading + range]		
VA Meter	Vrms × Arms corresponds to Vrms and Arms		

### PROTECTION

Over Power Protection	1260VA	1890VA	2520VA
Over Current Protection	12.6A	18.8A	25.2A
Over Voltage Protection	315Vrms		
Over Temperature Protection	~85°C		

## POWER & CREST FACTOR TABLE

Waveform Bank	Sinewave	Sinewave	Sinewave	CF = 2	CF = 2.5	CF = 3.5	CF = 2	CF = 2.5	CF = 3.5	Square	DC
	0	1	2	3	4	5	6	7	8	9	10
A	√2	1.5	3.0	PF: - 0.85	PF: - 0.70	PF: - 0.50	PF: +0.85	PF: +0.70	PF: +0.50	1	√2DC
B	2	1.6	3.1	PF: - 0.80	PF: - 0.65	PF: - 0.45	PF: +0.80	PF: +0.65	PF: +0.45	1.1	2DC
C	2.5	1.7	3.2	PF: - 0.75	PF: - 0.60	PF: - 0.40	PF: +0.75	PF: +0.60	PF: +0.40	1.2	2.5DC
D	3.0	1.8	3.3	PF: - 0.70	PF: - 0.50	PF: - 0.35	PF: +0.70	PF: +0.50	PF: +0.35	1.3	3DC
E	3.5	1.9	3.4	PF: - 0.65	PF: - 0.40	PF: - 0.30	PF: +0.65	PF: +0.40	PF: +0.30	1.4	3.5DC
Lagging Power Factor						Leading Power Factor					



“  
WE ARE  
POSITIVE  
PEOPLE  
”

ETPS engineer electronic power supply and testing systems. Our problem solving skills provide the spark of innovation to some of the world's leading technology brands.



Tel: +44 (0) 1246 452909  
Sales: 0800 612 95 75  
sales@etps.co.uk  
www.etps.co.uk

ETPS Ltd  
Unit 14, The Bridge  
Beresford Way, Chesterfield  
S41 9FG



**POSITIVE PROBLEM SOLVING**