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ELPA-3250

AC Electronic Load Modules

Description

Available as a plug in load module the ELPA-3250 series has 3 versions with a choice of voltage and current ranges. These AC Loads operate in constant current and constant resistance modes and can also be used to sink DC Sources. Dual 4½ digit displays clearly show the voltage and current values at the load terminals. Remote sense is provided to counter any voltage drop in the load lines. These modules can be housed within the 3302C single slot mainframe. Alternatively the rack mounting 3300C mainframe can accommodate up to 4 modules. This approach allows load modules from other ranges to be operated or mixed in the same mainframe. A front panel memory with an auto sequencing function is also provided. This is ideal to quickly implement common test procedures when the load's are used on the benchtop. For batch testing upper and lower limits can be adjusted to signal a pass or fail. An isolated current monitor is provided to connect and view the load on an oscilloscope. The crest factor mode enables high current peaks to be simulated. The users can recall a sine, square or DC crest factors from a bank of 55 waveforms. This can be achieved from the front panel or via the computer interface.



- One unit to sink AC or DC sources
- Can be paralleled for high power
- CC, CR & crest factor mode
- GO/NG limit check
- Remote sense
- Scope output

Selection Table

Part Number	Maximum Power	Maximum Voltage	Current Range	Dimensions (Width x Height x Depth)
ELPA-3250	300W	60 Vrms/60 VDC	0 - 20 Arms	108 x 143 x 405mm
ELPA-3251	300W	150 Vrms/150 VDC	0 - 8 Arms	108 x 143 x 405mm
ELPA-3252	300W	300 Vrms/300 VDC	0 - 4 Arms	108 x 143 x 405mm



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Technical Data

CC Mode (DC, 40-400Hz)

	ELPA-3250	ELPA-3251	ELPA-3252
Range 1	0 - 10Arms	0 - 4Arms	0 - 2Arms
Range 1 Resolution	2.5mA	1mA	0.5mA
Range 2	10 - 20Arms	4 - 8Arms	2 - 4Arms
Range 2 Resolution	5mA	2mA	1mA
Crest Factor	$\sqrt{2}$, 1.5 to 3.5 in 0.1 steps		

CR Mode (DC - 400Hz)

	ELPA-3250	ELPA-3251	ELPA-3252
Range 1	0.3 - 1.2k Ω	1.875 - 7.5k Ω	7.5 - 30k Ω
Range 1 Resolution	0.21mS	0.033mS	0.0083mS
Range 2	1.2 - 4.8k Ω	7.5 - 30k Ω	30 - 120k Ω
Range 2 Resolution	0.83mS	0.13mS	0.033mS

4½ DVM

	ELPA-3250	ELPA-3251	ELPA-3252
Range	0 - 60V	0 - 150V	0 - 300V
Resolution	0.01V	0.01V	0.01V

4½ DAM

	ELPA-3250	ELPA-3251	ELPA-3252
Range	0 - 20A	0 - 8A	0 - 4A
Resolution	0.01A	0.001A	0.001A

Watt Meter

	ELPA-3250	ELPA-3251	ELPA-3252
Range	0 - 300W		
Resolution	0.1W		

VA Meter

	ELPA-3250	ELPA-3251	ELPA-3252
VA Meter	Vrms x Arms Correspond to Vrms and Arms		

I Monitor

	ELPA-3250	ELPA-3251	ELPA-3252
I Monitor (Isolated)	2A/V	0.8A/V	0.4A/V
Weight	3.5kg		

Options Table

Code	Description
/3302C.....	Single slot mainframe with RS232 (separate summary available)
/3302C-GPIB.....	Single slot mainframe with RS232 & IEEE 488.2 (see separate summary)
/3300.....	4 slot mainframe with RS232 (separate summary available)
/3300-GPIB.....	4 slot mainframe with RS232 & IEEE 488.2 (separate summary available)
/0001.....	1m IEEE488.2 cable
/0002.....	2m IEEE488.2 cable
/0003.....	2m RS232 cable
/9931.....	Remote controller