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ELP-3320

Static DC Electronic Load Modules

Description

The 3320 series is the ideal low cost solution when only adjustable constant current operation is required. The units feature dual ranges thus providing a tight setting resolution in the lower range. Sink values can be preset before activating the load's input. The current slew rate can be adjusted in 3 steps with the fastest fall times possible in the higher current range. Operating the low resistance short mode allows the user to read the actual short current up to the Electronic Load's maximum rating. An isolated current monitor allows the load current to be viewed on an oscilloscope. Up to 4 modules from this series can be housed in the ELP-3301A mainframe. if only a single module is required then the desktop 3302C mainframe should be chosen.



- Adjustable current slew rate control
- Constant current & short modes
- Dual 4½ digit displays for V & I
- Over V, W & °C protection
- Up to 500VDC operation
- Output for oscilloscope

Selection Table

Part Number	Maximum Power	Maximum Voltage	Current Range	Module Weight	Dimensions (Width x Height x Depth)
ELP-3320	150W	60VDC	0 - 30A	3.5kg	108 x 143 x 405mm
ELP-3321	300W	60VDC	0 - 60A	3.5kg	108 x 143 x 405mm
ELP-3322	300W	250VDC	0 - 10A	3.5kg	108 x 143 x 405mm
ELP-3324	200W	500VDC	0 - 5A	3.5kg	108 x 143 x 405mm
ELP-3325	75W	60VDC	0 - 15A	3.5kg	108 x 143 x 405mm

Technical Data & Options Table Overleaf



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Technical Data

CC Mode	ELP-3320	ELP-3321	ELP-3322	ELP-3324	ELP-3325
Range 1	0 - 3A	0 - 6A	0 - 1A	0 - 0.5A	0 - 1.5A
Range 1 Resolution	0.75mA	1.5mA	0.25mA	0.125mA	0.75mA
Range 2	0 - 30A	0 - 60A	0 - 10A	0 - 5A	0 - 15A
Range 2 Resolution	7.5mA	15mA	2.5mA	1.25mA	7.5mA
Accuracy	± 0.2% of (setting + range)				
Slew Rate					
Fast	50/500mA/µS	0.1/1A/µS	16/160mA/µS	10/100mA/µS	30/300mA/µS
Medium	30/300mA/µS	60/600mA/µS	10/100mA/µS	6/60mA/µS	10/100mA/µS
Slow	10/100mA/µS	20/200mA/µS	3.3/33mA/µS	0.83/8.33mA/µS	2.5/25mA/µS
4½ DVM					
Range 1	20V	20V	20V	200V	20V
Range 1 Resolution	0.001V	0.001V	0.001V	0.01V	0.001V
Range 2	60.00V	60.00V	250.0V	500.0V	60.00V
Range 2 Resolution	0.01V	0.01V	0.01V	0.1V	0.01V
Accuracy	± 0.05% of reading (+ 2 count)				
4½ DAM					
Range	30.00A	60.00A	10.00A	5.00A	15.00A
Resolution	0.01A	0.01A	0.001A	0.001A	0.001A
Accuracy	± 0.2% of reading (+ 2 count)				
Short Ω	0.03Ω	0.02Ω	0.04Ω	0.12Ω	0.08Ω
Amp Monitor	3A/V	6A/V	1A/V	0.5A/V	1.5A/V
Accuracy	± (2% + 5mA)	± (2% + 10mA)	± (2% + 2mA)	± (2% + 2mA)	± (2% + 5mA)
Cooling	Fan cooled				

Options Table

Code	Description
/VCS.....	Add Vsense control switch for low voltage operation
/DSK.....	Disable short key function for parallel or battery life testing
/3301A.....	4 slot mainframe (separate summary available)
/3302C.....	Single slot mainframe with RS232 (separate summary available)
/3302C-GPIB.....	Single slot mainframe with RS232 & GPII(separate summary available)
/9931.....	Remote controller
/0001.....	1m IEEE488.2 cable
/0002.....	2m IEEE488.2 cable
/0003.....	2m RS232 cable

Single slot chassis
ELP-3302C



Four slot chassis
ELP-3301A