

# Data sheet

## DC Electronic Load

### Model 8540



The 8540 DC electronic load is a very compact, economically priced instrument that is at home on both the bench and the production floor.

Though this is a DC load in a small package, it can reliably test a 5 volt power supply to 30 amps and do it continuously.

The 8540 DC electronic load can operate in CC, CV or CR mode while voltage/current or resistance/power values are measured and displayed in real time, making it well suited to test a variety of DC power sources.

The 8540's performance is comparable to most full size bench DC loads, yet it does the job at half the price and takes up half the space on your bench.

#### Features:

- Operates between 0-60 VDC, 1 mA-30 A (150 W maximum)
- Easy operation
- Bright, easy-to-read display
- Very compact and light weight
- Two current ranges: 3 A (1 mA resolution) and 30 A (10 mA resolution)
- Constant current (CC), constant resistance (CR) and constant voltage (CV) operation
- Over-current and over-voltage protection
- Short mode to simulate shorts
- Save up to 400 instrument settings

Specifications				model
				8540
	Voltage	Current	Power	
Input Rating (0-40 °C)	0-60 V	1 mA-30 A	150 W	
	Range	Accuracy	Resolution	
Load Regulation	0-10 V	±(0.05%+0.1%FS)	1 mV	
	0-60 V	±(0.05%+0.1%FS)	10 mV	
	0-3 A	±(0.1%+0.1%FS)	1 mA	
	0-30 A	±(0.1%+0.15%FS)	10 mA	
CV Mode Regulation	0.1-60 V	±(0.05%+0.1%FS)	10 mV	
CC Mode Regulation	0-3 A	±(0.1%+0.1%FS)	1 mA	
	0-30 A	±(0.1%+0.15%FS)	10 mA	
CR Mode Regulation	0.1-10 Ω	±(1%+0.8%FS)	0.001 Ω	
	10-99 Ω	±(1%+0.8%FS)	0.01 Ω	
	100-999 Ω	±(1%+0.8%FS)	1 Ω	
	1-4 kΩ	±(1%+0.8%FS)	1 Ω	
Current Measurement	0-3 A	±(0.1%+0.1%FS)	1 mA	
	0-30 A	±(0.1%+0.15%FS)	10 mA	
Voltage Measurement	0-10 V	±(0.05%+0.1%FS)	1 mV	
	0-60 V	±(0.05%+0.1%FS)	10 mV	
Power Measurement	0-10 W	±(1%+0.5%FS)	1 mW	
	10-99 W	±(1%+0.5%FS)	10 mW	
	100-150 W	±(1%+0.5%FS)	100 mW	
Dimensions (WxHxD)	3.5" x 6.9" x 11.10" (88 x 175 x 282 mm)			
Weight	6 Lbs. (2.7 kg)			
				One Year Warranty
Accessories				
Supplied: User Manual, Power Cord				