

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 an instrument in a small package, it can reliably test a 5 volt power supply to 30 amps and do it continuously.

The 8540 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.

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			