



## KEY FEATURES

### Model 1310

- Frequency response : 20Hz~200kHz
- 0.001A~10.00A, 90W output capability
- Forward / Reverse current switching capability
- Bias current sweep (2~11 points), automatic or manual trigger, for core characteristics analysis
- 16x2 LCD text display
- 0.001 Ω ~199.99 Ω DCR measurement capability
- Long term continued maximum power output capability
- Excellent protection circuit, keep L Meter from damage as bias current was broken abnormally

## KEY FEATURES

### Model 1320

- Frequency response : 20Hz~1MHz
- 0.001A~20.00A, 150W output capability, maximum 100Adc extendable with 1320S
- Forward / Reverse current switching capability



- Standard GPIB, Handler interface
- Bias current sweep (2~21 points), automatic or manual trigger, for core characteristics analysis
- Direct controlled by LCR Meter 3302/3252/11022/11025
- 16x2 LCD text display
- 0.01m Ω ~199.99 Ω DCR measurement capability
- 50 internal instruments setups for store/recall capability
- Single bias current output timer capability (24 hours)
- Long term continued maximum power output capability
- Excellent protection circuit, keep L Meter from damage as bias current was broken abnormally

The 1320 Bias Current Source output can be controlled by LCR Meter Model 3302/3252/11022/11025 directly. The 1320S connected externally can output current up to 100A. The bias current scan frequency triggered automatically or manually can analyze the iron core characteristics in inductor for quality inspection and product feature analysis. They are the best measurement instruments combination for inductor test.

## ORDERING INFORMATION

- 1310** : Bias Current Source 0~10A
- 1320** : Bias Current Source 0~20A
- 1320-10A** : Bias Current Source 0~10A
- 1320S** : Bias Current Source (Slave)
- A113011** : 4 Terminals Test Cable with Clip
- A115001** : Foot Switch #10



SPECIFICATIONS					
Model	1310	1320	1320S	1320-10A	
<b>Bias Current Source</b>					
Output Current	0.00~10.00Adc Forward/Reverse	0.00~ 20.00Adc Forward/Reverse 100A extendable when linked with 1320S	0.00~20.00Adc(Slave) Forward/Reverse *2	0.00~10.00Adc Forward/Reverse	
Accuracy	0.000A~1.000A:1%+3mA 1.01A~10.00A:2%	0.000A~1.000A : 1% +3mA 1.001A~5.00A:2% 5.01A~20.00A:2% 20.1A~20.0(1+X)A:3% *1	3%	0.000A~1.000A:1%+3mA 1.001A~5.00A:2% 5.01A~10.00A:2%	
Scan Test	Manual or Auto, 2~11 steps	Manual or Auto, 2~21 steps	---	Manual or Auto, 2~21 steps	
Frequency Response	20Hz~200kHz	20Hz~1MHz	20Hz~1MHz	20Hz~1MHz	
Maximum Power Continued Output Allowable Time	> 24 hours (below 40°C)				
Timer	---	0~24 hours	---	0~24 hours	
Delay time	---	0.0~100.0 sec/step, adjustable	---	0.0~100.0 sec/step, adjustable	
<b>DCR Meter Accuracy &amp; Resolution</b>					
DCR Range	20m Ω	---	2% + 0.07m Ω, 0.01m Ω	---	2%+ 0.07m Ω,0.01m Ω
	200m Ω	---	2% + 0.2m Ω, 0.1m Ω	---	2% + 0.2m Ω,0.1m Ω
	2 Ω	3% + 0.002 Ω,0.001 Ω	3% + 0.002 Ω,0.001 Ω	---	3%+ 0.002 Ω,0.001 Ω
	20 Ω	3% + 0.03 Ω, 0.01 Ω	3% + 0.02 Ω, 0.01 Ω	---	3%+0.02 Ω, 0.01 Ω
	200 Ω	3% + 0.3 Ω, 0.1 Ω	3% + 0.2 Ω, 0.1 Ω	---	3% + 0.2 Ω, 0.1 Ω
<b>DCV Display</b>					
Display Range	---	0.00V~10.00Vdc	---	0.00V~20.00Vdc	
Accuracy	---	2% + 0.05Vdc	---	2% + 0.05Vdc	
Display	16 x 2 text dot matrix LCD			---	16 x 2 text dot matrix LCD
<b>General</b>					
Operation Environment	Temperature : 10°C~40°C, Humidity : 10%~90 % RH				
Power Consumption	250VA max.	650VA max.	600VA max.	650VA max	
Power Requirements	90 ~ 132Vac or 180 ~ 264Vac, 47 ~ 63Hz				
Dimension (H x W x D)	132 x 410 x 351 mm / 5.2 x 16.14 x 13.82 inch	177 x 430 x 450 mm / 6.97 x 16.93 x 17.72 inch			
Weight	8.8 kg / 19.38 lbs	17.5 kg / 38.55 lbs	15.5 kg / 34.14 lbs	17.5 kg / 38.55 lbs	

**Note\*1** : X is the number of linked 1320S

**Note\*2** : 1320S is a slave current source of 1320