

AC/DC POWER HiTESTER 3334-20, 3334-21

The **AC/DC POWER HiTESTER 3334-20** and **3334-21** are special-purpose models whose current measurement sensitivities are enhanced **10 times** higher than those of the standard products, the 3334 and 3334-01. The each specification differs in the following points.



The maximum rated voltage between input terminals and ground is 300 V.

Attempting to measure voltage exceeding 300 V with respect to ground could damage the instrument and result in personal injury.

1. Range configuration and effective measurement range

Voltage, Current (other than 3-A range)	: 1% to 100% of range (0.5% to 152% of range)
Current (3-Arange)	: 0.0300 A to 4.0000 A (0.0150 A to 4.5600 A)
Active power (other than 3-A range)	: 0% to 225% of range (0% to 231.04% of range)
Active power (3-A range)	: 0% to 200% of range (0% to 231.04% of range)

Voltage Current	15-V range 0.150 to 22.500 V (0.075 to 22.800 V)	30-V range 0.300 to 45.000 V (0.150 to 45.600 V)	150-V range 1.50 to 225.00 V (0.75 to 228.00 V)	300-V range 3.00 to 450.00 V (1.50 to 456.00 V)
10-mA range 0.100 to 15.000 mA (0.050 to 15.200 mA)	150-mW range 0.00 to 337.50 mW (0.00 to 346.56 mW)	300-mW range 0.00 to 675.00 mW (0.00 to 693.12 mW)	1.5-W range 0.0000 to 3.3750 W (0.0000 to 3.4656 W)	3-W range 0.0000 to 6.7500 W (0.0000 to 6.9312 W)
30-mA range 0.300 to 45.000 mA (0.150 to 45.600 mA)	450-mW range 0.00 mW to 1.0125 W (0.00 mW to 1.0397 W)	900-mW range 0.00 mW to 2.0250 W (0.00 mW to 2.0794 W)	4.5-W range 0.0000 to 10.125 W (0.0000 to 10.397 W)	9-W range 0.0000 to 20.250 W (0.0000 to 20.794 W)
100-mA range 1.00 to 150.00 mA (0.50 to 152.00 mA)	1.5-W range 0.0000 to 3.3750 W (0.0000 to 3.4656 W)	3-W range 0.0000 to 6.7500 W (0.0000 to 6.9312 W)	15-W range 0.0000 to 33.750 W (0.0000 to 34.656 W)	30-W range 0.0000 to 67.500 W (0.0000 to 69.312 W)
300-mA range 3.00 to 450.00 mA (1.50 to 456.00 mA)	4.5-W range 0.0000 to 10.125 W (0.0000 to 10.397 W)	9-W range 0.0000 to 20.250 W (0.0000 to 20.794 W)	45-W range 0.0000 to 101.25 W (0.0000 to 103.97 W)	90-W range 0.0000 to 202.50 W (0.0000 to 207.94 W)
1-A range 0.0100 to 1.5000 A (0.0050 to 1.5200 A)	15-W range 0.000 to 33.750 W (0.000 to 34.656 W)	30-W range 0.000 to 67.500 W (0.000 to 69.312 W)	150-W range 0.00 to 337.50 W (0.00 to 346.56 W)	300-W range 0.00 to 675.00 W (0.00 to 693.12 W)
3-A range 0.0300 to 4.0000 A (0.0150 to 4.5600 A)	45-W range 0.000 to 90.000 W (0.000 to 103.97 W)	90-W range 0.000 to 180.00 W (0.000 to 207.94 W)	450-W range 0.00 to 900.00 W (0.00W to 1.0397 kW)	900-W range 0.00 W to 1.8000 kW (0.00 W to 2.0794 kW)

Note 1: The effective measurement range of active power is valid when voltage and current are within their effective measurement ranges

Note 2: Other measurement items depend on the effective measurement ranges of voltage, current and active power

Note 3: Values of voltage and current less than 0.5% of their ranges are suppressed (forced to display as zero)

Note 4: Numerical values in the displayed range are subject to a ± 1 dgt. error due to calculation accuracy.

2. Measurement accuracy (1 year only)

Frequency (f)	Voltage, Current, Active power		
	Input < 50% f.s.	50% f.s. ≤ Input ≤ 100% f.s.	100% f.s. < Input Note 3,4
DC Note 1,2	$\pm 0.1\%$ rdg. $\pm 0.2\%$ f.s.	$\pm 0.1\%$ rdg. $\pm 0.2\%$ f.s.	$\pm 0.3\%$ rdg.
45Hz ≤ f ≤ 66Hz	$\pm 0.1\%$ rdg. $\pm 0.1\%$ f.s.	$\pm 0.2\%$ rdg.	$\pm 0.2\%$ rdg.
66Hz < f ≤ 1kHz	$\pm 0.1\%$ rdg. $\pm 0.2\%$ f.s.	$\pm 0.3\%$ rdg.	$\pm 0.3\%$ rdg.
1kHz < f ≤ 5kHz	$\pm 3.0\%$ f.s.	$\pm 3.0\%$ rdg.	$\pm 3.0\%$ rdg.

Note 1: Add $\pm 5 \mu A$ for DC current measurement accuracy

Note 2: Add $(\pm 5 \mu A) \times (\text{voltage reading})$ for DC active power measurement accuracy

Note 3: The effective measurement range of 3-A range is up to 4 A (133.33% of the range).

Note 4: When the 3-A range is set, the effective measurement range of active power is up to 200% of the range.

3. Display format of integration value

Format of current integration

Current range	10 mA, 30 mA	100 mA, 300 mA	1 A, 3 A
Reset value	00.0000 mAh	000.000 mAh	0.00000 Ah

Format of active power integration

Current range Voltage range	10 mA, 30 mA	100 mA, 300 mA	1 A, 3 A
15 V, 30 V	000.000 mWh	0.00000 Wh	00.0000 Wh
150 V, 300 V	0.00000 Wh	00.0000 Wh	000.000 Wh

4. Input resistance (50/60 Hz)

Current: 80 mΩ or less

