



# PROVA®

## PROVA 6605 Power & Harmonics Tester

Electrical Specifications: (23°C±5°C)

### AC Watt (Range: 0~1500A)

Range	Resolution	Accuracy of Readings	
		> 20 V and > 20A	< 20V or < 20A
10.0 – 999.9 W	0.1W	±1% ± 20dgts	±2% ± 40dgts
1.000 – 9.999 KW	0.001 KW	±1% ±20dgts	±2% ±40dgts
10.00 – 99.99 KW	0.01 KW	±1% ±20dgts	±2% ±40dgts
100.0 – 999.9 KW	0.1 KW	±1% ±20dgts	±2% ±40dgts
1000 – 9999 KW	1 KW	±1% ±20dgts	±2% ±40dgts

### AC Apparent Power (Range: 0~1500A)

Range	Resolution	Accuracy of Readings	
		> 20 V & > 20A	< 20V or < 20A
10.0 – 999.9 VA	0.1VA	±1% ±20dgts	±2% ±40dgts
1.000 – 9.999 KVA	0.001 KVA	±1% ±20dgts	±2% ±40dgts
10.00 – 99.99 KVA	0.01 KVA	±1% ±20dgts	±2% ±40dgts
100.0 – 999.9 KVA	0.1 KVA	±1% ±20dgts	±2% ±40dgts
1000 – 9999 KVA	1 KVA	±1% ±20dgts	±2% ±40dgts

### AC Reactive Power (Range: 0~1500A)

Range	Resolution	Accuracy of Readings	
		> 20 V & > 20A	< 20V or < 20A
10.0 – 999.9 VAR	0.1VAR	±2% ±30dgts	±3% ±40dgts
1.000 – 9.999 KVAR	0.001 KVAR	±2% ±30dgts	±3% ±40dgts
10.00 – 99.99 KVAR	0.01 KVAR	±2% ±30dgts	±3% ±40dgts
100.0 – 999.9 KVAR	0.1 KVAR	±2% ±30dgts	±3% ±40dgts
1000 – 9999 KVAR	1 KVAR	±2% ±30dgts	±3% ±40dgts

### AC Current (50/60Hz, Auto Range, TRMS, C,F,<4, CT=1, OL Protection AC 2000A)

Range	Resolution	Accuracy of Readings
4.0 – 1500.0 A (for PROVA 6605)	0.1 A	±1.0% ± 5dgts

### AC Voltage (50/60Hz, Auto Range, TRMS, C.F.<4, Input Impedance 10 MΩ, Overload Protection AC 800V)

Range	Resolution	Accuracy of Readings
4.0 V – 600.0 V	0.1 V	±0.5% ± 5dgts

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**Harmonics of AC Voltage in Percentage**

Range	Resolution	Accuracy
1 – 20 <sup>th</sup>	0.1%	±2%
21 – 49 <sup>th</sup>	0.1%	4% of reading ±2.0%
50 – 99 <sup>th</sup>	0.1%	6% of reading ±2.0%

**Harmonics of AC Voltage in Magnitude**

Range	Resolution	Accuracy
1 – 20 <sup>th</sup>	0.1%	2% of reading ± 0.5V
21 – 49 <sup>th</sup>	0.1%	4% of reading ±0.5V
50 – 99 <sup>th</sup>	0.1%	6% of reading ±0.5V

**Harmonics of AC Current in Percentage**

Range	Resolution	Accuracy
1 – 20 <sup>th</sup>	0.1%	±2%
21 – 49 <sup>th</sup>	0.1%	4% of reading ±2.0%
50 – 99 <sup>th</sup>	0.1%	6% of reading ±2.0%

**Harmonics of AC Current in Magnitude**

Range	Resolution	Accuracy
1 – 20 <sup>th</sup>	0.1%	±2% of reading ±0.4A
21 – 49 <sup>th</sup>	0.1%	±4% of reading ±0.4A
50 – 99 <sup>th</sup>	0.1%	±6% of reading ±0.4A

**Power Factor (PF)**

Range	Resolution	Accuracy	
		> 20V and > 20A	< 20V or < 20A
0.000 – 1.000	0.001	± 0.04	±0.1

**Phase Angle ( $\Phi$ , > 20V and > 20A)**

Range	Resolution	Accuracy
-180° to 180°	0.1°	± 1.5°
0° to 360°	0.1°	± 1.5°

**Total Harmonic Distortion**

Range	Resolution	Accuracy
0.0 – 20%	0.1%	± 2%
20.1 – 100%	0.1%	± 6% of reading ± 1%
100.1 – 999.9 %	0.1%	± 10% of reading ± 1%

**Peak Value of AC Voltage (peak value > 5V) or AC Current (peak value > 20A)**

Range	Sampling Time	Accuracy of Reading
50 Hz	39 $\mu$ s	± 5% ± 30 digits
60 Hz	33 $\mu$ s	± 5% ± 30 digits

**Resistance ( $\Omega$ ) and Continuity (Beep if less than 50 $\Omega$ )**

Range	Resolution	Accuracy
7.0 – 999.9 $\Omega$	0.1 $\Omega$	± 5 $\Omega$
1000 – 1200 $\Omega$	1 $\Omega$	± 5 $\Omega$

**Crest Factor (C.F.) of ACV (peak value > 5V) or ACA (peak value > 20A)**

Range	Resolution	Accuracy of Readings
1.00 – 99.99	0.01	± 5% ± 30 digits

**Frequency of ACV (RMS value > 10V) or ACA (RMS value > 30A)**

Range	Resolution	Accuracy
45 – 65	0.1	± 0.2Hz

### General Specifications:

Conductor Size:	55mm (approx.), 65 x 24mm (bus bar)
Battery Type:	two 1.5V SUM-3
Display:	4+4 digits LCD
Range Selection:	Auto
Overload Indication:	OL
Power Consumption:	10 mA(approx.)
Low battery Indication:	
Auto-Power-Off:	30 minutes after power-on
Update Time:	2 times/second (display)
No. Of Samples per Period	512 (voltage or current) 256 (power)
Operating Temperature:	-10°C to 50°C
Operating Humidity:	less than 85% relative
Altitude:	up to 2000M
Storage Temperature:	-20°C to 60°C
Storage Humidity:	less than 75% relative
Dimension:	271mm (L) x 112mm (W) x 46mm (H) 10.7" (L) x 4.4" (W) x 1.8" (H)
Weight:	647g / 22.8 oz (battery included)
Accessories:	test leads x 1 pair Carrying bag x 1 Users manual x 1 Batteries 1.5V x 2
Option:	Alligator clips

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