



PROVA 6200 Graphic Power Quality Analyzer

Electrical Specifications: (23°C±5°C)

AC Watt (W)

Range (0 to 1500A)	Resolution	Accuracy of Readings	
		> 20 V and > 20A	< 20V or < 20A
10.0 – 999.9 W	0.1W	±2% ±20dgts	±2% ±40dgts
1.000 – 9.999 KW	0.001 KW	±2% ±20dgts	±2% ±40dgts
10.00 – 99.99 KW	0.01 KW	±2% ±20dgts	±2% ±40dgts
100.0 – 999.9 KW	0.1 KW	±2% ±20dgts	±2% ±40dgts
1000 – 9999 KW	1 KW	±2% ±20dgts	±2% ±40dgts

AC Apparent Power (VA)

Range (0 to 1500A)	Resolution	Accuracy of Readings	
		> 20 V and > 20A	<20V or < 20A
10.0 – 999.9 VA	0.1VA	±2% ±20dgts	±2% ±40dgts
1.000 – 9.999 KVA	0.001 KVA	±2% ±20dgts	±2% ±40dgts
10.00 – 99.99 KVA	0.01 KVA	±2% ±20dgts	±2% ±40dgts
100.0 – 999.9 KVA	0.1 KVA	±2% ±20dgts	±2% ±40dgts
1000 – 9999 KVA	1 KVA	±2% ±20dgts	±2% ±40dgts

AC Reactive Power (VAR)

Range (0 to 1500A)	Resolution	Accuracy of Readings	
		> 20 V and > 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

Power Factor (PF)

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

Range of VT (Voltage Transformer) Ratio: 1 to 3000

AC Active Energy (WH, or KWH, from 0 WH to 999,999 KWH)

$$WH = W * \text{Time (in hours)}$$

AC Current (A)

(Overload Protection AC 2000A)

Range	Resolution	Accuracy of Readings
10.0 – 1500.0 A	0.1 A	±2.0% ± 5dpts

AC Voltage (V)

(Overload Protection AC 800V)

Range	Resolution	Accuracy of Readings
10.0 – 600.0 V	0.1 V	±0.5% ± 5dpts

Harmonics of AC Voltage in Percentage

Range	Resolution	Accuracy
1 – 20 th	0.1%	±2%
21 – 50 th	0.1%	4% of reading ±2.0%

Harmonics of AC Voltage in Magnitude

Range	Resolution	Accuracy
1 – 20 th	0.1%	±2% ± 0.5V
21 – 50 th	0.1%	4% of reading ±0.5V

Harmonics of AC Current in Percentage

Range	Resolution	Accuracy
1 – 20 th	0.1%	±2%
21 – 50 th	0.1%	4% of reading ±2.0%

Harmonics of AC Current in Magnitude

Range	Resolution	Accuracy
1 – 20 th	0.1%	±2% of range ±0.4A
21 – 50 th	0.1%	±4% of range ±0.4A

Phase Angle (Φ)

Range	Resolution	Accuracy
-180° to 180°	0.1°	± 2°
0° to 360°	0.1°	± 2°

Total Harmonic Distortion (THD)

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

Peak Value of AC Voltage (RMS value > 20V) or AC Current (RMS value > 30A)

Range	Sampling Time	Accuracy of Reading
50 Hz	39 μs	± 5% ± 50 digits
60 Hz	33 μs	± 5% ± 50 digits

Frequency of AC Voltage (RMS value > 30V) or AC Current (RMS value > 30A)

Range	Resolution	Accuracy
46 – 65	0.1	± 0.3Hz

General Specifications:

Conductor Size:	55mm (approx.) 65 x 24mm (bus bar)
Battery Type:	two 1.5V SUM-3
Display:	128 X 64 Dot Matrix LCD with Backlight
Range Selection:	Auto
Overload Indication:	OL
Power Consumption:	10mA (approx)
Auto-Power-Off:	15 minutes after power-on
LCD Update Time:	2 times/sec.
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:	Users manual x 1 Batteries 1.5V x 2 Software CD x 1 Software users manual x 1 Carrying Bag x 1 Test leads Alligator clips RS232 to USB bridge x 1

PROVA[®]

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