

# Data Sheet

## IPM 6200

### Graphic Power Quality Analyzer

#### FEATURES :

- Power Quality Analysis for Single and Balanced 3 Phase System
- Harmonic Analysis of Voltage and Current (1 to 50<sup>th</sup> order)
- True RMS measurement of V with 0.5% basic accuracy
- True RMS measurement of A with 1% of range basic accuracy
- Graphic Waveform of Voltage and Current
- Graphic Phasor Diagram
- Transient Detection and Logging of Swell, Dip, and Outage
- Fast peak function (39 $\mu$ s for 50 Hz, 33 $\mu$ s for 60Hz)
- Active (W, KW, HP), reactive (VAR, KVAR) and apparent (VA, KVA) power
- Power factor (PF), phase angle ( $\Phi$ ), and energy (WH, KWH)
- Programmable VT ratio from 1 to 3000
- Hold functions
- Auto power off function in 15 minutes (selectable)

#### SPECIFICATIONS :

##### AC Watt

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

##### 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	$\pm 1\% \pm 20\text{dgts}$	$\pm 2\% \pm 40\text{dgts}$
1.000 – 9.999 KVA	0.001 KVA	$\pm 1\% \pm 20\text{dgts}$	$\pm 2\% \pm 40\text{dgts}$
10.00 – 99.99 KVA	0.01 KVA	$\pm 1\% \pm 20\text{dgts}$	$\pm 2\% \pm 40\text{dgts}$
100.0 – 999.9 KVA	0.1 KVA	$\pm 1\% \pm 20\text{dgts}$	$\pm 2\% \pm 40\text{dgts}$
1000 – 9999 KVA	1 KVA	$\pm 1\% \pm 20\text{dgts}$	$\pm 2\% \pm 40\text{dgts}$



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#### SPECIFICATIONS :

##### 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 & > 20A	< 20V or < 20A
0.000 – 1.000	0.001	± 0.04	±0.1

##### AC Current (50 or 60 Hz, Auto Range, True RMS, Crest Factor < 4, Overload Protection AC 2000A)

Range	Resolution	Accuracy of Readings
4.0 – 1500.0 A	0.01 A	±1.0% ± 5dgts

##### AC Voltage (Overload Protection AC 800V)

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

##### Harmonics of AC Voltage in Percentage

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

##### Harmonics of AC Voltage in Magnitude

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

##### Harmonics of AC Current in Percentage

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

##### Harmonics of AC Current in Magnitude

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



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#### SPECIFICATIONS :

##### Phase Angle ( $\Phi$ )

Range	Resolution	Accuracy
-180° to 180°	0.1°	$\pm 1^\circ$
0° to 360°	0.1°	$\pm 1^\circ$

##### Total Harmonic Distortion

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

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

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

##### Frequency of AC Voltage (RMS value > 20V) or AC Current (RMS value > 30A)

Range	Resolution	Accuracy
46 – 65	0.1	$\pm 0.3$ Hz

<b>Conductor Size:</b>	55mm (approx.), 65 x 24mm (bus bar)
<b>Data Logging Memory Size:</b>	512K bytes
<b>Maximum Transient Events:</b>	32000
<b>Battery Type:</b>	two 1.5V SUM-3
<b>Display:</b>	128 X 64 Dot Matrix LCD with Backlight
<b>Range Selection:</b>	Auto
<b>Overload Indication:</b>	OL
<b>Power Consumption:</b>	10mA (approx)
<b>Auto-Power-Off:</b>	15 minutes after power-on
<b>LCD Update Time:</b>	2 times/sec.
<b>No. Of Samples per Period</b>	512 (voltage or current); 256 (power)
<b>Operating Temperature:</b>	-10°C to 50°C
<b>Operating Humidity:</b>	Less than 85% RH
<b>Altitude:</b>	up to 2000M
<b>Storage Temperature:</b>	-20°C to 60°C
<b>Storage Humidity:</b>	Less than 75% RH
<b>Dimension (Box):</b>	271 x 112 x 46 mm
<b>Weight:</b>	647g (battery included)
<b>Accessories:</b>	Users manual, Batteries 1.5V x 2, Software CD, Software users manual, Carrying Bag, Test leads, Alligator clips, Optical USB cable



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