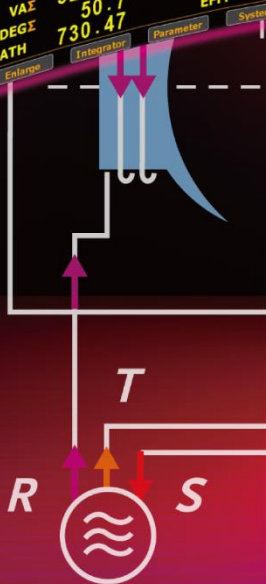
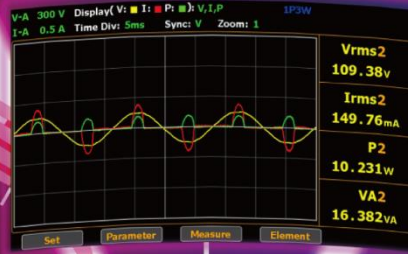


# 3 $\phi$



## GPM-8320-60/8330-60 Digital Power Meter

### FEATURES:

- ✖ 5" TFT LCD
- ✖ Voltage/Current Test Freq. Bandwidth: DC, 0.1 Hz to 100 kHz
- ✖ Direct Input Current up to 60 A
- ✖ **Waveform Display** : V (Voltage), I (Current), P (Wattage)
- ✖ Distorted wave Current/Voltage measurement: full range for CF=3, and half range for CF=6 (or 6A)
- ✖ Meeting IEC 61000-4-7 harmonic measurement (50/60Hz)
- ✖ **Wiring selecting button (1P3W,3P3W,3P4W,3V3A)**
- ✖ Harmonic measurement & analysis up to 50 orders
- ✖ Auto ranging function for Integration mode
- ✖ Screen Capture through USB host
- ✖ Provide **external current sensor input** (EXT1/EXT2)
- ✖ Standard Interface: RS-232C, USB device/ host, LAN
- ✖ Optional Interface: GPM-DA12 - GPIB + Digital I/O (factory installed only)

## REAR PANEL



**GPM-8320-60 with opt. GPM-DA12**



**GPM-8330-60 with opt. GPM-DA12**

## SPECIFICATIONS

Model	GPM-8320-60	GPM-8330-60
Channel	2	3
Parameters	Vrms, Vmn, Vdc, Vac, Irms, Idc, Iac, P, VA, VAR, PF, CFI, CFV, DEG, IHz, VHz, V+pk, V-pk, I+pk, I-pk, P+pk, P-pk, THDI, THDV, MATH, MCR, EFFI	
Input		
Voltage Range	15 V / 30 V / 60 V / 150 V / 300 V / 600 V / 1000 Vrms (CF=3), 7 range	
Current Range	1 A / 2 A / 5 A / 10 A / 20 A / 60 A (CF=3), 6 range	
Accuracy	DC : $\pm (0.2 \% \text{ of reading} + 0.2 \% \text{ of range})$ 0.1 Hz to 45 Hz : $\pm (0.1 \% \text{ of reading} + 0.2 \% \text{ of range})$ 45 Hz to 66 Hz : $\pm (0.1 \% \text{ of reading} + 0.05 \% \text{ of range})$ 66 Hz to 1 kHz : $\pm (0.1 \% \text{ of reading} + 0.2 \% \text{ of range})$ 1 kHz to 10 kHz : $\pm ((0.07 \times f) \% \text{ of reading} + 0.3 \% \text{ of range}) \sim \text{Voltage}$ $\pm ((0.13 \times f) \% \text{ of reading} + 0.3 \% \text{ of range}) \sim \text{Current}$ $\pm ((0.07 \times f) \% \text{ of reading} + 0.3 \% \text{ of range}) \sim \text{EXT1/2}$ 10 kHz to 100 kHz : $\pm (0.5 \% \text{ of reading} + 0.5 \% \text{ of range}) \pm \{[0.04 \times (f-10)] \% \text{ of reading} \sim \text{Voltage}$ $\pm ((0.13 \times f) \% \text{ of reading} + 0.5 \% \text{ of range}) \sim \text{Current}$ $\pm (0.5 \% \text{ of reading} + 0.5 \% \text{ of range}) \pm \{[0.04 \times (f-10)] \% \text{ of reading} \sim \text{EXT1/2}$	
Harmonics Accuracy	10 Hz to 45 Hz : 0.15 % of reading+ 0.35% of range 45 Hz to 440 Hz : 0.15 % of reading+ 0.35% of range 440 Hz to 1.2 kHz : 0.20 % of reading+ 0.35% of range	
Voltage Input Resistance	2M $\Omega$	
Power		
Range	15 W to 180 kW (42 ranges)	
Accuracy	DC : $\pm (0.3 \% \text{ of reading} + 0.2 \% \text{ of range})$ 0.1 Hz to 45 Hz : $\pm (0.3 \% \text{ of reading} + 0.2 \% \text{ of range})$ 45 Hz to 66 Hz : $\pm (0.1 \% \text{ of reading} + 0.05 \% \text{ of range})$ 66 Hz to 1 kHz : $\pm (0.2 \% \text{ of reading} + 0.2 \% \text{ of range})$ 1 kHz to 10 kHz : $\pm (0.3 \% \text{ of reading} + 0.5 \% \text{ of range}) \pm \{[0.13 \times f] \% \text{ of reading}\}$ 10 kHz to 100 kHz : $\pm (0.5 \% \text{ of reading} + 1.0 \% \text{ of range}) \pm \{[0.13 \times f] \% \text{ of reading}\}$	
Frequency		
Range	DC, 0.1 Hz to 100 kHz	
Accuracy	$\pm (0.06 \% \text{ of reading})$	
Frequency Source	Voltage or Current source selectable	
Others		
Display Resolution	5 Digits	
Display Update Rate	0.1 s / 0.25 s / 0.5 s / 1 s / 2 s / 5 s / 10 s / 20 s	
Interface	Standard: RS-232C/USB host & device/LAN Option: mini GPIB+Digital IO (GPM-DA12)	
Power Source	AC 100 V to 240 V $\pm 10 \%$ , 50 Hz / 60 Hz (Consumption: 35 VA)	
Dimension & Weight	GPM-8320-60: 220 (W) x 132 (H) x 402.5 (D) mm; Approx. 3.4 kg GPM-8330-60: 220 (W) x 132 (H) x 402.5 (D) mm; Approx. 3.85 kg	

Specifications subject to change without notice.

