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Programmable AC Power Source

Rentals • Sales • Calibration • Service



PROGRAMMABLE AC POWER SOURCE MODEL 6400 SERIES

Chroma 6400 Series Programmable AC Power Source uses state of the art PWM technology to deliver pure, instrument grade AC power at very low cost ever achieved before. The 6400 AC power source offers maximum rated power for the output voltage from 0 to 300VAC, at the frequency from 45 to 1kHz. It is not only suitable for commercial applications (47-63Hz), but also for avionics, marine, and military applications at 400Hz.

The 6400 Series Programmable AC Power Source generates very clean output with typical distortion less than 0.3%. With the incorporated of power factor correction circuit, the 6400 AC Power Source yields higher efficiency and delivers more output power than competitive instruments. Furthermore, it is capable of providing high peak repetitive current that is required to drive most electronic products with high crest factor input design.

The 6400 AC Power Source uses advanced DSP circuit to offer precision and high-speed measurement for true RMS voltage, true RMS current, true power, frequency, power factor, and current crest factor.

The 6400 AC Power Source is very easy to operate through the front panel keypad, or the remote controller via GPIB, RS-232 or APG (Analog Programming) interface. The optional interface is designed as a plug-in card to change the unit in seconds into a computer controlled system power source.

Designed with self-diagnostic routine and protections against over voltage, under voltage, overpower, over current, over temperature and fan fail, the instrument has the qualities and reliability that can suit for the most demanding applications in production tests, R&D design, and QA verification.

MODEL 6400 SERIES

Key Features:

Output Rating:

Power: 375VA,1ø (6404) 800VA,1ø (6408) 1500VA,1ø (6415) 2000VA,1ø (6420) 3000VA,1ø (6430) 6000VA,1ø (6460)

> 1øor 3ø (6463) 9000VA,1øor 3ø (6490)

Voltage: 0~150V / 0~300V / Auto (6404, 6408, 6415, 6420, 6430) 0~150V / 0~300V (parallel) (6460) 0~300V / 0~500V (serial) (6460) 0~150V / 0~300V(6463, 6490)

- Output distortion less than 0.3%, and peak repetitive current over 2.5 times for rms current (6404, 6408)
- High accuracy measurement for RMS voltage, RMS current, true power, frequency, power factor, and current crest factor
- Built-in power factor correction circuit provides input power factor over 0.98 to meet
 IEC regulations
- Programmable current limit
- Built-in output isolation relays
- EEPROM storage for user defined voltage and frequency combinatio for instant recall at anytime
- Optional GPIB, RS-232, and Analog Programming Interface
- Over voltage, under voltage, over power, over current, over temperature, and short circuit protection
- Temperature controlled fan speed
- Self-test at power-on
- User-definable power-on state















THE COST EFFECTIVE PROGRAMMABLE AC POWER SOURCES

The 6400 Series AC Power Source supplies very clean output with typical output distortion less than 0.3% THD. The output is transformer isolated (6404 & 6408) providing an exceptionally low total harmonic distortion without sacrificing efficiency. 6460 Remote sense connections are provided for superb output regulation to

compensate for load line losses while keeping the output at a precise level regardless of output load condition.

The 6400 Series incorporates input power factor

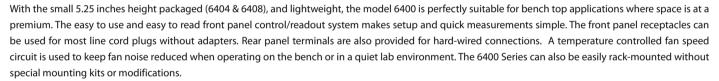
correction circuitry resulting in high efficiency and lower input line current. The 6400 Series employs advanced DSP circuitry (6404 & 6408) or 16-bit measurement circuit to provide precise high-speed measurement of the output for true RMS voltage, true RMS current, true power, frequency, power factor, and current crest factor. These output measurements can be displayed on the

large, easy to read, front panel readout. The 6400 Series are easy to operate using the front panel keypad, (6404 & 6408) with 9-user programmable output voltage, frequency, and current limit combinations for quick and consistent testing. An optional controller

can be added for GPIB, RS232 or analog programming for completely automated testing applications.

The interface is a plug-in card that can change the 6400 from a manual unit

to a computer-controlled system AC power source.



6415

6408

The wide output voltage range of 0-300 VAC (0-500 VAC for Model 6460) can be selected for either 0-150 VAC or 0-300 VAC, or set to auto-ranging output voltage. The 45-1000 Hz output frequency range provides excellent flexibility in a small compact unit with a great performance / cost ratio. The programmable current limit adds to the flexibility while reducing current flow potential for non-destructive testing easily.

The 6400 Series provides a self-diagnostic routine, easy to set programmable output over voltage limit, input line under voltage protection, output overpower, over current, over temperature, and fan failure protection.

The 6400 Series offers quality, reliability, and flexibility for the most demanding applications in production tests, R&D, and QA verification.

APPLICATIONS



IEC standard compliance testing



PC & monitor testing



Servo motor, synchro motor testing



AC ballast testing



Transformers testing



6420

Relays, switches testing



6463 6490

6430

TRIACs, SCRs & passive components testing



Product safety testing



UPS function & environmental testing



Power supply input function & environmental testing



Air conditioner testing



Avionics testing of military & aircraft

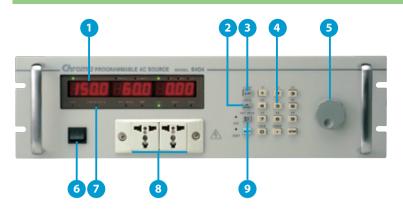


Breakers, fuses testing



Lamp circuit testing

PANEL DESCRIPTION



- 1. Measurement item indicators
- 2. Select measurement items of current, power factor, or crest factor
- 3. Set output voltage, frequency, and current limit
- 4. Data setting and function keys
- 5. Rotary knob for adjusting output setting
- 6. Power switch
- 7. Status indicators
- 8. Universal output socket
- 9. Output enable and disable

SPECIFICATIONS

Model		6404*	6408*	6415	6420
Output / Phase		1	1	1	1
Output Ratino					
Power / Phase		375VA	800VA	1500VA	2000VA
Voltage					
Range / Phase	<u> </u>		150V/3	300V/Auto	
Accuracy		0.2% F.S. for freg. ≦ 200Hz	, 0.4% F.S. for freg. > 200Hz	0.2% + 0.2	% of F.S.
Resolution		0.1V			0.1V
Distortion		typical. 0.3% for freq. ≤ 200Hz, 0.8% for freq.>200Hz		0.5% for (45-500Hz), 1% for (> 500-1kHz)	
Line Regulation		0.1%	0.1%	0.1%	0.1%
Load Regulation		0.1%	0.1%	0.1%	0.1%
Temp. Coefficient		0.02% per °C			
Max. current	rms	2.5A/1.25A	5.33A/2.67A	15A/7.5A	20A/10A
		7A/3.5A ≦ 100Hz	14.92A/7.47A ≦ 100Hz	$45A/22.5A \le 100Hz (45-100Hz)$	60A/30A (45-100Hz)
	peak	5.5A/12.75A >100Hz	7.47A/5.87A >100Hz	37.5A/18.75A (>100-1kHz)	50A/25A (>100-1kHz)
Frequency					, , ,
Range		45-500Hz	45-500Hz	45-1000Hz	45-1000Hz
Accuracy		0.1%	0.1%	0.1%	0.1%
Resolution		0.1Hz	0.1Hz	0.1Hz	0.1Hz
Input Ratings					
Voltage Range		90-132V / 180-250V	90-132V (6408-1), 180-250V (6408-2)	190-250V, 1Ø	190-250V, 1Ø
Frequency Ra	nge	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Current		7.5A max.	12A max.(6408-1), 6A max. (6408-2)	12A max.	15A max.
Power Factor		0.8 typical.	0.98 min.	0.95 min.	0.97 min.
Measurement	1	71			
Voltage / Phas	se				
Range		0-150V/0-300V	0-150V/0-300V	0-150V/0-300V	0-150V/0-300V
Accuracy (rms)		0.1% + 0.1% F.S.		0.25% + 0.1% F.S.	
Resolution		0.1V	0.1V	0.1V	0.1V
Current / Phas	se				
Range (peak		0-2A/2-10A	0-4A/4-20A	0-70A	0-100A
Accuracy (rms)		0.5% + 0.2% F.S.	0.5% + 0.2% F.S.	0.4% + 0.2% F.S.	0.4% + 0.15% F.S.
Resolution		0.01A	0.01A	0.01A	0.01A
Power / Phase					
Range		0-375W	0-800W	0-1500W	0-2000W
Accuracy		0.5% F.S.	0.5% F.S.	1% F.S. (CF<6)	1% F.S. (CF<6)
Resolution		0.1 W	0.1 W	0.1 W for P<1000W	1W for P>1000W
Frequency					
Range		45-500Hz	45-500Hz	45-1000Hz	45-1000Hz
Accuracy		0.02%	0.02%	0.02%	0.02%
Resolution		0.1Hz	0.1Hz	0.1Hz	0.1Hz
Others					
Efficiency		75% typical	80% typical	80% typical	80% typical
Protection		UVP, OVP, OCP, OPP, OTP, Short			
Safety & EMC		CE (Include LVD and EMC Requirement)			
Dimension (H x W x D)		133.35 x 482.6 x 471.4 m	133.35 x 482.6 x 471.4 mm / 5.25 x 19 x 18.56 inch 221.5 x 425 x 567 mm / 8.72		.72 x 16.73 x 22.32 inch
Weight		18 kg / 39.65 lbs	23 kg / 50.66 lbs	23 kg / 50.66 lbs	27 kg / 59.47 lbs

^{*}The 6408 has been discontinued and is no longer available.

Model	6463 6490 1 or 3 selectable 1 or 3 selectable 2000VA 3000VA 150V/300V 150V/300V 0.2% + 0.2% of F.S. 0.2% + 0.2% of F.S. 0.1V 0.1V		
Output Ratings Power / Phase 3000VA 6000VA Voltage Bange / Phase 150V/300V/Auto 150V/300V(parallel), 300V/500V(series) Accuracy 0.2% + 0.2% of F.S. 0.2% + 0.2% of F.S. Resolution 0.1V 0.1V Distortion 0.5% for (45-500Hz), 1% for (> 500-1KHz) 1% Line Regulation 0.1% 0.2%(series), 0.8% (parall 1% for (> 500-1KHz) Load Regulation 0.1% 0.2%(series), 0.8% (parall 1% for (> 500-1KHz) Temp. Coefficient 0.02% per °C 0.02% per °C Max. current -rms / Phase 30A/15A 60A/30A/15A (150V/300V/50V/30V/50V/50V/50V/30V/50V/50V/50V/50V/50V/50V/50V/50V/50V/5	2000VA 3000VA 150V/300V 150V/300V 0.2% + 0.2% of F.S. 0.2% + 0.2% of F.S.		
Output Ratings 3000VA 6000VA Voltage 3000VA 6000VA Range / Phase 150V/300V/Auto 150V/300V(parallel), 300V/500V(series) Accuracy 0.2% + 0.2% of F.S. 0.2% + 0.2% + 0.2% of F.S. Resolution 0.1V 0.1V Distortion 0.5% for (45-500Hz), 1% for (> 500-1KHz) 1% Line Regulation 0.1% 0.2%(series), 0.8% (parall 1% for (> 500-1KHz) Load Regulation 0.1% 0.2%(series), 0.8% (parall 1% for (> 500-1KHz) Temp. Coefficient 0.02% per °C 0.02% per °C Max. current -rms / Phase 30A/15A 60A/30A/15A (150V/300V/5) Peak Current/ 3(45-100Hz) 180A/90A/45A (45-100V/5) Peak Current/ 3(45-100Hz) 150A/75A/38A (> 100-1kI Prequency 8ange 45-1000Hz 45-1000Hz Accuracy 0.1% 0.15% Resolution 0.1Hz 190-250V, 3Ø Input Ratings Voltage Range 190-250V, 1Ø 190-250V, 3Ø Frequency Range 47-63Hz 47-63Hz 47-63Hz Current <td>150V/300V 150V/300V 0.2% + 0.2% of F.S. 0.2% + 0.2% of F.S.</td>	150V/300V 150V/300V 0.2% + 0.2% of F.S. 0.2% + 0.2% of F.S.		
Voltage Range / Phase 150V/300V/Auto 150V/300V(parallel), 300V/500V(series) Accuracy 0.2% + 0.2% of F.S. 0.2% + 0.2% of F.S. Resolution 0.1V 0.1V Distortion 0.5% for (45-500Hz), 1% for (>500-1KHz) 1% Line Regulation 0.1% 0.1% Load Regulation 0.1% 0.2%(series), 0.8% (parall fem.) Temp. Coefficient 0.02% per °C 0.02% per °C Max. current -rms / Phase 30A/15A 60A/30A/15A (150V/300V/5 Peak Current/ 3(45-100Hz), 180A/90A/45A (45-100Hz) 180A/90A/45A (45-100Hz) phase-crest-factor 2.5(>100-1KHz) 150A/75A/38A (>100-1kl Frequency Range 45-1000Hz 45-1000Hz Accuracy 0.1% 0.15% Resolution 0.1Hz 190-250V, 1Ø 190-250V, 3Ø Prequency Range 47-63Hz 47-63Hz 47-63Hz Current 23A max. 23A max./phase 23A max/phase Power Factor 0.98 min. 0.98 min. under full loa 0.98 min. under full loa	150V/300V 150V/300V 0.2% + 0.2% of F.S. 0.2% + 0.2% of F.S.		
Range Phase 150V/300V/Auto 300V/500V(series) Accuracy 0.2% + 0.2% of F.S. 0.1V 0.1V 0.1V 0.1V 0.1V 0.1V 0.1% 0.5% for (45-500Hz), 1% for (>500-1KHz) 1% 0.2% (series), 0.8% (parall Temp. Coefficient 0.02% per °C 0.02%	0.2% + 0.2% of F.S. 0.2% + 0.2% of F.S.		
Accuracy	0.2% + 0.2% of F.S. 0.2% + 0.2% of F.S.		
Resolution			
Distortion	0.1V 0.1V		
Distrition			
Load Regulation 0.1% 0.2%(series), 0.8% (parall Temp. Coefficient Temp. Coefficient 0.02% per °C 0.02% per °C Max. current - rms / Phase 30A/15A 60A/30A/15A (150V/300V/5 Peak Current/ phase-crest-factor 2.5(>100-1KHz) 180A/90A/45A (45-100H phase-crest-factor Frequency 150A/75A/38A (>100-1kl phase-crest-factor 150A/75A/38A (>100-1kl phase-crest-factor Frequency 0.1% 0.15% Range 45-1000Hz 45-1000Hz Accuracy 0.1% 0.15% Resolution 0.1Hz 0.15% Input Ratings 0.14 190-250V, 1Ø 190-250V, 3Ø Frequency Range 47-63Hz 47-63Hz 47-63Hz Current 23A max. 23A max./phase 23A max./phase Power Factor 0.98 min. 0.98 min. under full loa 0.98 min. under full loa Measurement Voltage / Phase Range 0-150V/0-300V 0-150V/0-300V 0-150V/0-300V Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S. 0.25% + 0.1% F.S. Resolution 0.01A	1% 1%		
Temp. Coefficient 0.02% per °C 0.02% per °C Max. current -rms / Phase 30A/15A 60A/30A/15A (150V/300V/5 Peak Current/ phase-crest-factor 3(45-100Hz), 2.5(>100-1KHz) 180A/90A/45A (45-100Hz) Frequency Range 45-1000Hz 150A/75A/38A (>100-1klz) Accuracy 0.1% 0.15% Resolution 0.1Hz 190-250V, 1Ø 190-250V, 3Ø Frequency Range 47-63Hz 47-63Hz 47-63Hz Current 23A max. 23A max./phase Power Factor 0.98 min. 0.98 min. under full loa Measurement Voltage / Phase Range 0-150V/0-300V 0-150V/0-300V 0-150V/0-300V Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S 0.25% + 0.1% F.S 0.25% + 0.1% F.S 0.25% + 0.1% F.S. 0.25% + 0.1% F.S. 0.26% + 0.1%	0.1%		
Max. current -rms / Phase 30A/15A 60A/30A/15A (150V/300V/50V/50V/50V/50V/50V/50V/50V/50V/50V/	lel) 0.2%(3 phases), 0.8% (1 phase) 0.2%(3 phases), 0.8% (1 phase)		
Peak Current/ phase-crest-factor 3(45-100Hz), 2.5(>100-1KHz) 180A/90A/45A (45-100H 150A/75A/38A (>100-1kl Frequency Range 45-1000Hz 45-1000Hz Accuracy 0.1% 0.15% Resolution 0.1Hz 190-250V, 1Ø 190-250V, 3Ø Frequency Range 47-63Hz 47-63Hz Current 23A max. 23A max./phase Power Factor 0.98 min. 0.98 min. under full loa Measurement Voltage / Phase Range 0-150V/0-300V 0-150V/0-300V Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S Resolution 0.1V 0.1V Current / Phase Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)	0.02% per °C		
Description	500V) 20A/10A (150V/300V) 30A/15A (150V/300V)		
Frequency Range 45-1000Hz 45-1000Hz Accuracy 0.1% 0.15% Resolution 0.1Hz Input Ratings Voltage Range 190-250V, 1Ø 190-250V, 3Ø Frequency Range 47-63Hz 47-63Hz Current 23A max. 23A max./phase Power Factor 0.98 min. 0.98 min. under full loa Measurement Voltage / Phase Range 0-150V/0-300V 0-150V/0-300V Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S Resolution 0.1V 0.1V Current / Phase Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)			
Range 45-1000Hz 45-1000Hz Accuracy 0.1% 0.15% Resolution 0.1Hz 0.15% Input Ratings 190-250V, 1Ø 190-250V, 3Ø Frequency Range 47-63Hz 47-63Hz Current 23A max. 23A max./phase Power Factor 0.98 min. 0.98 min. under full loa Measurement Woltage / Phase Range 0-150V/0-300V 0-150V/0-300V Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S Resolution 0.1V 0.1V Current / Phase Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)	Hz) 50A/25A (>100-1kHz) 75A/38A (>100-1kHz)		
Accuracy 0.1% 0.15% Resolution 0.1Hz 0.1Hz Input Ratings 190-250V, 1Ø 190-250V, 3Ø Frequency Range 47-63Hz 47-63Hz Current 23A max. 23A max./phase Power Factor 0.98 min. 0.98 min. under full loa Measurement Voltage / Phase Range 0-150V/0-300V 0-150V/0-300V Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S Resolution 0.1V 0.1V Current / Phase Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6) 1% F.S. (CF<6) Resolution 0.1 W for P<1000W, 1W for P>1000W 0.01 W			
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Input Ratings Voltage Range 190-250V, 1Ø 190-250V, 3Ø Frequency Range 47-63Hz 47-63Hz 47-63Hz 23A max. 23A max./phase Power Factor 0.98 min. 0.98 min. under full loa Measurement Voltage / Phase Range 0-150V/0-300V 0-150V/0-300V Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S Resolution 0.1V 0.1V Current / Phase Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6) 1% F.S. (CF<6) Resolution 0.1 W for P<1000W, 1W for P<1000W Frequency 0.01 W Frequency	0.15% 0.15%		
Voltage Range 190-250V, 1Ø 190-250V, 3Ø Frequency Range 47-63Hz 47-63Hz Current 23A max. 23A max./phase Power Factor 0.98 min. 0.98 min. under full loa Measurement Voltage / Phase Range 0-150V/0-300V 0-150V/0-300V Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S Resolution 0.1V 0.1V Current / Phase Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)	0.01Hz (45-99.9Hz), 0.1Hz (100-999.9Hz)		
Frequency Range 47-63Hz 47-63Hz Current 23A max. 23A max./phase Power Factor 0.98 min. 0.98 min. under full loa Measurement Voltage / Phase Range 0-150V/0-300V 0-150V/0-300V Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S Resolution 0.1V 0.1V Current / Phase Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)			
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Power Factor 0.98 min. 0.98 min. under full loa Measurement Voltage / Phase Range 0-150V/0-300V 0-150V/0-300V Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S Resolution 0.1V 0.1V Current / Phase Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)	47-63Hz 47-63Hz		
Measurement Voltage / Phase Range 0-150V/0-300V 0-150V/0-300V Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S Resolution 0.1V 0.1V Current / Phase Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)	15A max./phase 23A max./phase		
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Accuracy (rms) 0.25% + 0.1% F.S. 0.25% + 0.1% F.S Resolution 0.1V 0.1V Current / Phase Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)			
Resolution 0.1V 0.1V Current / Phase 0-140A 0-280A Range (peak) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)	0-150V/0-300V 0-150V/0-300V		
Current / Phase Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)	0.25% + 0.1% F.S 0.25% + 0.1% F.S		
Range (peak) 0-140A 0-280A Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)	0.1V 0.1V		
Accuracy (rms) 0.4% + 0.1% F.S. 0.4% + 0.1% F.S. Resolution 0.01A 0.01A Power / Phase Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)			
Resolution 0.01A 0.01A Power / Phase Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)	0-100A 0-140A		
Power / Phase Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)	0.4% + 0.15% F.S. 0.4% + 0.1% F.S.		
Range 0-3000W 0-3000W Accuracy 1% F.S. (CF<6)	0.01A 0.01A		
Accuracy 1% F.S. (CF<6) 1% F.S. (CF<6) Resolution 0.1 W for P<1000W, 1W for P>1000W 0.01 W Frequency 0.01 W			
Resolution 0.1 W for P<1000W, 1W for P>1000W 0.01 W Frequency 0.01 W			
Resolution P>1000W 0.01 W Frequency	0-2000W 0-3000W		
	0-2000W 0-3000W 1% F.S. (CF<6) 1% F.S. (CF<6)		
Range 45-1000Hz 45-1000Hz			
	1% F.S. (CF<6) 1% F.S. (CF<6) 0.01 W 0.01 W		
Accuracy 0.02% 0.01%+2 count	1% F.S. (CF<6) 1% F.S. (CF<6) 0.01 W 0.01 W 45-1000Hz		
Resolution 0.1Hz 0.01Hz	1% F.S. (CF<6) 1% F.S. (CF<6) 0.01 W 0.01 W 45-1000Hz 45-1000Hz 0.01%+2 count 0.01%+2 count		
Others	1% F.S. (CF<6) 1% F.S. (CF<6) 0.01 W 0.01 W 45-1000Hz		
Efficiency 80% typical 80% typical	1% F.S. (CF<6) 1% F.S. (CF<6) 0.01 W 0.01 W 45-1000Hz 45-1000Hz 0.01%+2 count 0.01%+2 count		
Protection UVP, OVP, OCP, OPP, OTP, Short	1% F.S. (CF<6) 1% F.S. (CF<6) 0.01 W 0.01 W 45-1000Hz 45-1000Hz 0.01%+2 count 0.01%+2 count		
	1% F.S. (CF<6) 1% F.S. (CF<6) 0.01 W 0.01 W 45-1000Hz 45-1000Hz 0.01%+2 count 0.01%+2 count 0.01Hz 0.01Hz		
Dimension (H x W x D) 221.5 x 425 x 567 mm / 765.94 x 546 x 700 mm 8.72 x 16.73 x 22.32 inch 30.16 x 21.5 x 27.56 inch	1% F.S. (CF<6) 1% F.S. (CF<6) 0.01 W 0.01 W 45-1000Hz 45-1000Hz 0.01%+2 count 0.01%+2 count 0.01Hz 0.01Hz 80% typical 80% typical		
Weight 27 kg / 59.47 lbs 107 kg / 235.68 lbs	1% F.S. (CF<6) 1% F.S. (CF<6) 0.01 W 0.01 W 45-1000Hz 45-1000Hz 0.01%+2 count 0.01%+2 count 0.01Hz 0.01Hz 80% typical 80% typical OPP, OLP, OTP, FAN Fail VD and EMC Requirement) 1/ 990 x 546 x 700 mm / 990 x 546 x 700 mm /		

Note*1: For dimension including the wheel set, please add 80mm to overall height.

ORDERING INFORMATION

6404: Programmable AC Source 0~300V / 45~500Hz / 375VA Discontinued

 $\textbf{6408-1:} \ Programmable \ AC \ Source \ 0 \sim 300 \ V \ / \ 45 \sim 500 \ Hz \ / \ 800 \ VA \ (input \ rating \ 90-132 \ V)$

 $\textbf{6408-2:} Programmable AC Source 0 \sim 300 \text{V} \, / \, 45\text{-}500 \text{Hz} \, / \, 800 \text{VA (input rating 180-250 \text{V})}$

6415 : Programmable AC Source 0~300V / 45~1000Hz (1500VA)

6420 : Programmable AC Source 0~300V / 45~1000Hz (2000VA)

6430: Programmable AC Source 0~300V / 45~1000Hz (3000VA)

 $\textbf{6460-2:} Programmable AC Source 0 \sim 300 \text{V} / 45 \sim 1000 \text{Hz} \\ \textbf{(6000VA), output 100, input 300 220 \text{V}} \\ \textbf{(6000VA), output 300 220 \text{V}$

6460-3 : Programmable AC Source 0~300V / 45~1000Hz (6000VA), output 1Ø, input 3Ø 380V

6463-2: Programmable AC Source 0~300V / 45~1000Hz (6000VA), output 1Ø or 3Ø Selectable, input 3Ø 220V

 $\textbf{6463-3:} Programmable AC Source 0 \sim 300 V / 45 \sim 1000 Hz \\ (6000 VA), output 1 \\ \emptyset \ or 3 \\ \emptyset \ Selectable, input 3 \\ \emptyset \ 380 V = 1000 VA \\ Output 1 \\$

6490-2: Programmable AC Source 0~300V / 45~1000Hz (9000VA), output 1Ø or 3Ø Selectable, input 3Ø 220V **6490-3**: Programmable AC Source 0~300V / 45~1000Hz (9000VA), output 1Ø or 3Ø Selectable, input 3Ø 380V

A650001: Remote Interface for Model 6415 / 6420 / 6430 /6500 Series (External V Input, RS-232 Interface, GPIB Interface)

A640003: Remote Interface for Model 6404 / 6408 Series (External V Input, RS-232 Interface, GPIB Interface)

A640004: Softpanel for Model 6400 Series

A610004: Universal Socket Center for Model 6415 / 6420 / 6430 Series

Developed and Manufactured by :

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