

Programmable AC Power Source



【特點】

- 輸出容量：500VA - 5KVA
- 使用先進的高頻電源技術設計，效率高達 80%
- 直接耦合輸出技術，體積小重量輕；5KVA 高度只有 22.2cm / 重 65kg
- 輸出電壓 0 - 300V 及頻率 40 - 500Hz 設定全範圍可調
- 大型的 240 X 64 Graphic LCD 顯示器，可同時顯示電壓、頻率、電流 (有效值 / 峰值)、功率、功率因數、時間
- 超強輸出波峰因數比，於滿電流的輸出狀態下可達 3 : 1
- 可程式 50 個記憶組；內含 9 測試步驟，記憶組及步驟可單獨設定迴圈，記憶組間亦可連結測試以模擬各種負載的電源特性
- 針對被測物的壽命試驗，可依需求設定以秒、分、時為測試執行時間單位
- 特殊的恆流裝置，可輕易啟動馬達、壓縮機等高啟動電流之負載
- 高啟動負載能力，浪湧電流可達額定電流的 4 倍，並可維持 1000mS 不切斷保護
- 選購遠端遙控輸入界面，可執行 Test / Reset 及 7 組記憶組 (M1 - M7) 快速輸出
- 輸出過電流、短路、過電壓、過功率及過溫度保護及警報
- 可編程設計：可以設定輸出起始角度、結束角度及模擬突波 (Surge)、下陷波 (Drop)
- 測試中可以透過飛梭旋鈕 (Rotary Knob) 即時的調整顯示中的電壓 / 頻率輸出
- 標準 RS232 & USB 界面，可選購 GPIB 界面
- 選購直流輸出 0 - 400V 功能

【Features】

- Capacity : 500VA - 5KVA
- Utilize advance PWM technology with switching amplifier design, the efficiency up to at least 80%
- Adopt direct couple output technology, compact in size and light weight. As small as 22.2cm height and 65kg weight for capacity of 5KVA
- Adjustable AC output voltage 0 - 300V / frequency 40 - 500HZ
- Large 240 X 64 Graphic LCD display for readouts of V, F, Arms, Apeak, P, PF and Time
- Enhanced crest factor. The rate is up to 3:1 at rating current output
- Programmable 50 memories and 9 steps per memory, for interconnection between each step to simulate different test conditions of the DUT
- For Aging or Life test on DUT, the user able to change the timer either in second, minute or hour
- Unique regulation function in providing capability to turn on high inrush current loads such as motors and compressors
- Capable to withstand inrush current up to 4 times of rated current and able to maintain 1000ms without protection
- Optional PLC remote interface control, including TEST / RESET and recall 7 memories quick output
- Protections and alerts for over current, short circuit, over voltage, over power and over temperature
- Programmable design : Capable to set the starting and ending angle, Surge, Drop cycle
- Adjust voltage / frequency setting via Rotary Knob when output is turn ON
- Standard RS232 & USB interface and optional GPIB interface
- Optional DC output 0 - 400V

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[Specification]

MODEL		6605	6610	6620	6630	6650	
INPUT							
Phase		1Ø					
Voltage		110 / 220Vac ± 10%			220Vac ± 10%		
Frequency		47 - 63Hz					
Max. Current		10A / 5A	20A / 10A	20A	30A	50A	
Power Factor		0.7					
AC OUTPUT							
Max. Power		500VA	1000VA	2000VA	3000VA	5000VA ^{*2}	
Max. Current (r.m.s) ^{*1}	0 - 150V	4.6A	9.2A	18.4A	27.6A	46.0A	
	0 - 300V	2.3A	4.6A	9.2A	13.8A	23.0A	
Max Current (peak)	0 - 150V	18.4A	36.8A	73.6A	110.4A	184.0A	
	0 - 300V	9.2A	18.4A	36.8A	55.2A	92.0A	
Phase		1Ø / 2W					
Total Harmonic Distortion (T.H.D)		<1% at output voltage within the 80 - 140Vac at Low Range or the 160 - 280Vac at High Range					
Crest Factor		≥ 3					
Line Regulation		± 0.1V					
Load Regulation		± (0.5% of output + 0.5V) at Resistive Load					
Response Time		< 400usec					
SETTINGS							
Voltage	Range	0 - 300V, 150V / 300V Auto Range					
	Resolution	0.1V					
	Accuracy	± (1% of setting + 2 counts)			± (1% of setting + 5 counts)		
Frequency	Range	40 - 500Hz Full Range Adjust					
	Resolution	0.1Hz at 40.0 - 99.9Hz, 1Hz at 100 - 500Hz					
	Accuracy	± 0.03% of setting					
Starting & Ending Phase Angle	Range	0 - 359°					
	Resolution	1°					
	Accuracy	± 1° (45 - 65HZ)					
DC OUTPUT (Option)							
Max. Power		250W	500W	1000W	1500W	2500W	
Max. Current	0 - 200V	2.3A	4.6A	9.2A	13.8A	23.0A	
	0 - 400V	1.15A	2.3A	4.6A	6.9A	11.5A	
SETTINGS							
Voltage	Range	0 - 200V / 0 - 400V Selectable					
	Resolution	0.1V					
	Accuracy	± (1% of setting + 2 counts)			± (1% of setting + 5 counts)		
Ripple and Noise (r.m.s)	Range	L	< 250mV		< 350mV		
		H	< 400mV		< 550mV		
Ripple and Noise (p-p)		< 2Vp-p			< 3Vp-p		
MEASUREMENT							
Voltage (AC & DC)	Range	0.0 - 400.0V					
	Resolution	0.1V					
	Accuracy	± (1% of setting + 2 counts) at Voltage > 5V			± (1% of setting + 5 counts) at Voltage > 5V		
Frequency	Range	0.0 - 500.0Hz					
	Resolution	0.1Hz					
	Accuracy	± 0.1Hz					
Current (r.m.s)	Range	L	0.005A - 0.600A	0.005A - 1.200A	0.005A - 2.400A	2.00A - 3.600A	-
		H	0.50A - 6.50A	1.00A - 13.00A	2.00A - 26.00A	3.00A - 39.00A	0.00 - 65.00A
	Resolution	L	0.001A				-
		H	0.01A				-
	Accuracy	L	± (1% of reading + 5 counts) at Voltage > 5V			± (1% of reading + 5 counts) at 40 - 100Hz ± (2% of reading + 5 counts) at 101 - 500Hz at Voltage > 5V	-
Current (peak)	Range	0.0 - 19.0A	0.0 - 38.0A	0.0 - 76.0A	0.0 - 114.0A	0.0 - 190.0A	
	Resolution	0.1A					
	Accuracy	± (1% of reading + 5 counts)					
Current (DC)	Range	L	0.010A - 0.600A	0.010A - 1.200A	0.010A - 2.400A	0.010A - 3.600A	-
		H	0.50A - 6.50A	1.00A - 13.00A	2.00A - 26.00A	3.00A - 39.00A	0.05A - 65.00A
	Resolution	L	0.001A				-
		H	0.01A				-
	Accuracy	L	± (1% of reading + 5 counts) at Voltage > 5V			-	-
H	± (1% of reading + 5 counts) at Voltage > 5V						

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MODEL		6605	6610	6620	6630	6650	
Power (AC)	Range	L	0.0W - 60.0W	0.0W - 120.0W	0.0W - 240.0W	0.0W - 360W	-
		H	50W - 650W	100W - 1300W	200W - 2600W	300 - 3900W	0 - 6500W
	Resolution	L	0.1W				-
		H	1W				-
Accuracy	L	± (2% of reading + 15 counts) at Voltage > 5V		± (2% of reading + 30 counts) at Voltage > 5V	± (2% of reading + 15 counts) at PF>=0.2 & 40 - 100Hz ± (2% of reading + 15 counts) at PF>=0.5 & 101 - 500Hz at Voltage > 5V		
	H	± (2% of reading + 5 counts) at Voltage > 5V		± (2% of reading + 10 counts) at Voltage > 5V	± (2% of reading + 5 counts) at Voltage > 5V		
Power (DC)	Range	L	0.0W - 60.0W	0.0W - 120.0W	0.0W - 240.0W	0.0W - 360W	-
		H	50W - 650W	100W - 1300W	200W - 2600W	300 - 3900W	0 - 6500W
	Resolution	L	0.1W				-
		H	1W				-
Accuracy	L	± (2% of reading + 5 counts) at Voltage > 5V				-	
	H	± (2% of reading + 5 counts) at Voltage > 5V				-	
Power Factor	Range	0.000 - 1.000					
	Resolution	0.001					
	Accuracy	W / VA, Calculated and displayed to three significant digits					
GENERAL							
Remote Input Signal Interface (Option)		Test, Reset, Recall memory 1 through 7					
Remote Output Signal		Pass, Fail, Test-in-Process					
Memory		50 memories, 9 steps / memory					
Sync Output Signal		DC Level 5V, Between the sync signal and the output voltage will be 0.5ms time difference					
Timer		0 = Continuous, 0.5 - 999.9 (Unit : sec, minute, hour selectable)					
Alarm Volume Setting		Range : 0 - 9 ; 0 = OFF, 1 is softest volume, 9 is loudest volume					
Graphic Display		240 x 64 dot resolution Monographic LCD / Contrast 9 Levels 1 - 9					
Auto loop cycle		0 = Continuous, OFF, 2 - 9999					
Over Current Fold Back		On / Off , Setting On when output current over setting Hi - A value it will fold back output voltage to keep constant output current is setting Hi-A value					
Efficiency		≥ 80% (at Full Load)					
Protection		Over Current, Short Circuit, Over Temperature, Over Voltage, Over Power, Low Voltage and Alarm					
Calibration		Front Panel Calibration					
Interface (Option)		GPIB, PLC Remote Input Card, Ethernet					
Operation Environment		0 - 40°C / 20-80%RH					
Dimension, mm*3	W	430	430	430	430	430	
	H	89 (111.5)	89 (111.5)	89 (111.5)	223 (245.5)	223 (245.5)	
	D	400	400	500	500	500	
Net Weight		16.5Kg	18.2Kg	30Kg	57Kg	65Kg	

*1 At working voltage 110V / 220V

*2 PF ≤ 0.8 can work continuity

*3 Figure in parentheses are maximum values

*Product specifications are subject to change without notice.

[Ordering Information]

- 6605 Programmable AC Power Source 0 - 300V / 40 - 500Hz (500VA)
- 6610 Programmable AC Power Source 0 - 300V / 40 - 500Hz (1000VA)
- 6620 Programmable AC Power Source 0 - 300V / 40 - 500Hz (2000VA)
- 6630 Programmable AC Power Source 0 - 300V / 40 - 500Hz (3000VA)
- 6650 Programmable AC Power Source 0 - 300V / 40 - 500Hz (5000VA)
- Opt.612 PLC Remote I / P Interface
- Opt.627 GPIB Interface card
- Opt.629 Input Voltage 100V / 200V for 6605 & 6610
- Opt.630 Input Voltage 120V / 240V for 6605 & 6610
- Opt.631 Input Voltage 200V for 6620, 6630 & 6650
- Opt.632 Input Voltage 240V for 6620, 6630 & 6650
- Opt.633 DC Output Function for 6605
- Opt.634 DC Output Function for 6610
- Opt.635 DC Output Function for 6620
- Opt.643 USB & RS232 PC Control Card
- Opt.647 Ethernet Card
- Opt.651 DC Output Function for 6630
- Opt.652 DC Output Function for 6650
- Opt.653 External 0 - 10V control
- Opt.654 Sync Signal +5V / pulse 15ms
- 1936 AC Power Source Remote Controller