

Linear Programmable AC Power Source



【特點】

- 輸出容量：500VA - 4KVA
- 採用新型的線性 (Linear) 放大線路設計，低雜訊、高穩定性
- 使用先進的高密度電源技術設計，1KVA 容量高度只有 2U (8.9cm)
- 輸出電壓 0 - 300V 及頻率 45 - 500Hz 設定全範圍可調，另可選購電壓 0 - 600V 或頻率 45 - 1000HZ 輸出
- 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
- 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
- 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 0.1mA / 0.01W 量測解析度，可節省自行外加 Power Meter 的成本

【Features】

- Capacity : 500VA - 4KVA
- Linear amplifying design with low distortion and yet high stability
- High Sophisticated and compact design - As small as 2U (8.9cm) height for capacity of 1KVA
- Adjustable AC output voltage 0 - 300V / frequency 45 - 500HZ. Be able to option output voltage 0 - 600Vac or frequency 45 - 1000HZ
- Large 240 X 64 Graphic LCD display for readouts of V, F, Arms, Apeak, P, PF and Time
- 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
- Optional PLC remote interface control, including TEST / RESET and recall 7 memories quick output
- Protections and alerts for overload, short circuit, over voltage 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 high resolution measurement of 0.1mA / 0.01W for cost effective solution as no additional Power Meter needed

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[Specification]

MODEL		6705	6710	6720	6730	6740
INPUT						
Phase		1Ø				
Voltage*1		115 / 230Vac ± 15%		230Vac ± 15%		
Frequency		47 - 63Hz				
Max. Current		16A / 8A	30A / 16A	30A	50A	60A
Power Factor		0.7				
AC OUTPUT						
Max. Power		500VA	1000VA	2000VA	3000VA	4000VA
Max Current (r.m.s)*2	0 - 150V	4.2A	8.4A	16.8A	25.2A	33.6A
	0 - 300V	2.1A	4.2A	8.4A	12.6A	16.8A
Max Current (peak)	0 - 150V	16.8A	33.6A	67.2A	100.8A	134.4A
	0 - 300V	8.4A	16.8A	33.6A	50.4A	67.2A
Option 0 - 600V						
Max Current (r.m.s)*3	0 - 300V	2.1A	4.2A	8.4A	12.6A	16.8A
	0 - 600V	1.05A	2.1A	4.2A	6.3A	8.4A
Max Current (peak)	0 - 300V	8.4A	16.8A	33.6A	50.4A	67.2A
	0 - 600V	4.2A	8.4A	16.8A	25.2A	33.6A
Phase		1Ø / 2W				
Total Harmonic Distortion (T.H.D)		<0.5% at output voltage within the 80 - 140Vac at Low Range or the 160 - 280Vac at High Range <0.5% at output voltage within the 160 - 280Vac at Low Range or the 320 - 560Vac at High Range (Option 0 - 600V)				
Crest Factor		≥ 4				
Line Regulation		0.1% max for ± 10% line change				
Load Regulation		≤ 0.5% (Resistive Load)				
Response Time		< 100µS				
SETTINGS						
Voltage	Range	0 - 300V, 150V / 300V Auto or 0 - 600V, 300V / 600V Auto (Option 0 - 600V)				
	Resolution	0.1V				
	Accuracy	± (0.5% of setting + 2 counts)				
Frequency	Range	45 - 500Hz Full Range Adjust				
	Resolution	0.1Hz at 45 - 99.9Hz, 1Hz at 100 - 500Hz				
	Accuracy	± 0.02% of setting				
Frequency (Option 45Hz - 1KHz)	Range	45 - 1000Hz				
	Resolution	0.1Hz at 45 - 99.9Hz, 1Hz at 100 - 1000Hz				
	Accuracy	± 0.02% of setting				
Starting & Ending Phase Angle	Range	0 - 360°				
	Resolution	1°				
	Accuracy	± 1° (45 - 65HZ)				
MEASUREMENT						
Voltage	Range	0.0 - 300.0V / 0.0 - 600.0V				
	Resolution	0.1V / 0.2V				
	Accuracy	± (0.5% of reading + 2 counts) at Voltage > 5V				
Frequency	Range	0.0Hz - 1000.0Hz				
	Resolution	0.1Hz				
	Accuracy	± 0.1Hz at 45.0 - 500.0Hz / ± 0.5Hz at 501.0 - 1000.0Hz				
Current (r.m.s)	Range	L	0.000 - 3.500A			
		H	3.00 - 35.00A			
	Resolution	L	0.001A			
		H	0.01A			
	Accuracy	L	± (0.5% of reading + 5 counts) for 5 - 300V / ± (0.5% of reading + 10 counts) for 5 - 600V			
H	± (0.5% of reading + 3 counts) at Voltage > 5V					
Current (peak)	Range	0.0 - 200.0A				
	Resolution	0.1A				
	Accuracy	± (1% of reading + 2 counts) at Voltage > 5V				
Power	Range	L	0.0 - 350.0W			
		H	300 - 4000W			
	Resolution	L	0.1W			
		H	1W			
	Accuracy	L	± (0.6% of reading + 5 counts) at PF > 0.5 for 60 - 300V / ± (0.5% of reading + 30counts) at PF > 0.5 for 120 - 600V			
H	± (0.6% of reading + 2 counts) at PF > 0.5 for 60 - 300V / ± (0.5% of reading + 5 counts) at PF > 0.5 for 120 - 600V					
Power Factor	Range	0.000 - 1.000				
	Resolution	0.001				
	Accuracy	W / VA, Calculated and displayed to three significant digits				

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MODEL	6705	6710	6720	6730	6740	
Opt.623 Low Range meter Resolution (For 6705 / 6710)						
Current (r.m.s)	Range	2.0mA - 350.0mA		-	-	
	Resolution	0.1mA		-	-	
	Accuracy	± (0.6% of reading + 5 counts) at Voltage > 5V ± (1% of reading + 5counts) at Voltage > 5V (Option 0 - 600V)		-	-	
Power	Range	0.20W - 35.00W		-	-	
	Resolution	0.01W		-	-	
	Accuracy	± (1% of reading + 10 counts) at Voltage > 5V		-	-	
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	Output Signal 10V, BNC type, Between the sync signal and the output voltage will be 0.5ms time difference					
Timer	0 = Continuous, 0.1 - 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	By step or memory, or system loop cycle setting. 0 = Continuous, OFF, 2 - 9999					
Over Current Fold Back	On / Off, Setting On when output current over setting A - Hi value it will fold back output voltage to keep constant output current is setting A - Hi value					
Efficiency	≥ 40% (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					
Operation Environment	0 - 40°C / 20 - 80%RH					
Dimension, mm ^{*4}	W	430	430	430	430	
	H	89 (111.5)	89 (111.5)	268 (352)	624 (708)	624 (708)
	D	400	560 (588)	650 (730)	650 (730)	650 (730)
Weight	25Kg	38Kg	90Kg	165Kg	192Kg	

*Product specifications are subject to change without notice.

*1 The input voltage is restricted not to be lower than -5% of rated input voltage when output voltages reach >140V at 0 - 150V range & >280V at 0 - 300V range.

The input voltage is restricted not to be lower than -5% of rated input voltage when output voltages reach >280V at 0 - 300V range & >560V at 0 - 600V range. (Option 0 - 600V).

*2 At working voltage 120V / 240V

*3 At working voltage 240V / 480V

*4 Figure in parentheses are maximum values

[Ordering Information]

- 6705 Linear Programmable AC Power Source 0 - 300V / 45 - 500Hz (500VA)
- 6710 Linear Programmable AC Power Source 0 - 300V / 45 - 500Hz (1000VA)
- 6720 Linear Programmable AC Power Source 0 - 300V / 45 - 500Hz (2000VA)
- 6730 Linear Programmable AC Power Source 0 - 300V / 45 - 500Hz (3000VA)
- 6740 Linear Programmable AC Power Source 0 - 300V / 45 - 500Hz (4000VA)
- Opt.612 PLC Remote I / P Interface
- Opt.623 Low Range meter Resolution 0.1mA / 0.01W for 6705 & 6710
- Opt.624 Output 0 - 600V
- Opt.625 Output Frequency 45.0 - 1000Hz
- Opt.627 GPIB Interface card
- Opt.643 USB & RS232 PC Control Card
- Opt.655 Sync Signal + 5V / pulse 15ms
- 1936 AC Power Source Remote Controller