



可程控直流電源供應器 PROGRAMMABLE DC POWER SUPPLY MODEL 62000H SERIES

Chroma 62000H系列可程控直流電源供應器，提供許多獨特功能供電信、自動測試系統整合、工業、電池充電及模擬、混合動力汽車與太陽能面板模擬使用。這些功能包括3U中的15KW高功率密度、精準的輸出電流和電壓量測、輸出觸發信號，以及可模擬複雜的DC暫態波形以便測試設備的瞬斷、壓降與其他電壓間偏差的能力。

62000H系列包含各種不同的機型，範圍從5KW到15KW，具有電流範圍可達375A及電壓範圍可達1000V。62000H可簡易並聯10台儀器，可均流150KW供大功率應用，例如，450V/150A/67.5KW的電池組模擬供電動汽車與國防工業使用。

前面板上有100種使用者可程控輸入狀態，供自動測試應用與生命週期ON/OFF測試使用。此

外，62000H具備16 bit高解析度的數位控制和可視性佳的真空螢光顯示器讀出功能。

62000H系列直流電源供應器操作非常簡單，從前面板按鍵或遠端控制器經由標準的USB / RS232 / RS485 / APG控制介面與選購的GPIB及Ethernet控制介面。其具有3U精巧尺寸，可毫無困難的以標準機架堆疊於機台上。

62000H系列電源供應器另一個獨特的功能為可建立複雜的DC暫態波形。此功能可對設備進行電壓漏失、瞬斷和其他電壓變化等測試，是用於航空設備測試、太陽能逆變器測試和其他會產生電壓中斷之設備測試的理想選擇。其應用的範圍包括DC/DC轉換器和逆變器、壓降測試、引擎啟動模擬、電池自動充電、電子產品生命週期測試等等。

MODEL 62000H SERIES

特點

- 功率輸出範圍：5KW / 10KW / 15KW
- 電流輸出範圍：0 ~ 375A
- 電壓輸出範圍：0 ~ 1000V/2000V(串聯)
- 交流輸入電壓範圍：
200/220Vac, 380/400Vac, 440/480Vac
- 3U/15KW高功率密度
- 簡易主/從並聯&串聯操作模式可達150KW
- 精準的電壓及電流量測
- 高速可程式控制介面
- 電壓及電流斜率控制
- 數位旋鈕、鍵盤及功能按鈕操作
- 並聯時具有均流操作模式
- 電壓漸升/降功能
(時間範圍：10 ms ~ 99 hours)
- 具有10組可程式控制及100個步驟設定電壓/電流
- 過電壓、限電流及過溫度保護功能
- 標準的類比編程控制介面
- 標準的USB / RS232 / RS485 控制介面
- 可選購 GPIB / Ethernet 控制介面
- 遠端輸出 ON / OFF (I / P)
- 遠端感測線壓降補償
- LabView 及 Labwindows 控制驅動程式
- 太陽能電池陣列模擬功能
- 可模擬太陽能板遮罩下 I-V 曲線
- 具有100條 I-V 曲線自動程控
- 具有CE認證



Chroma

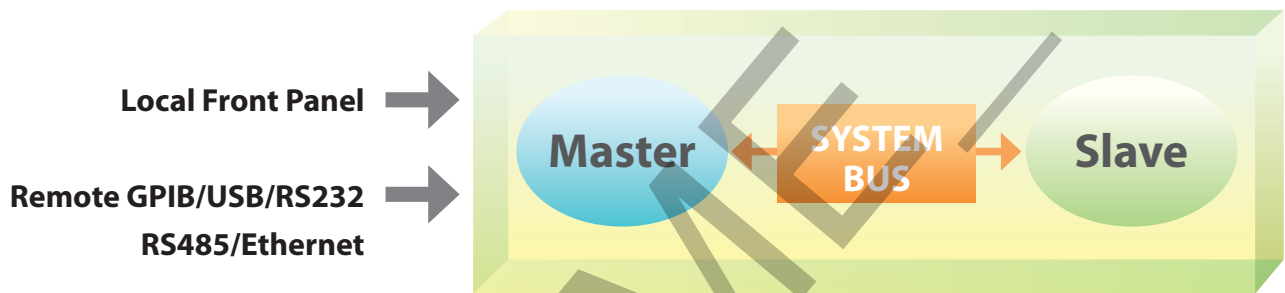
高功率密度3U/15KW可程控直流電源供應器

62000H系列電源供應器提供3U高15KW的高功率密度，具有低輸出噪音及連波、絕佳的市電擾動調節、負載調節與快速暫態回應。其具有大範圍的電壓30V~1000V，電流375A~25A的組合，適合從設計到產品測試生產流程的每一測試驗證用電源。



主/從並聯及串聯操作模式可達150KW

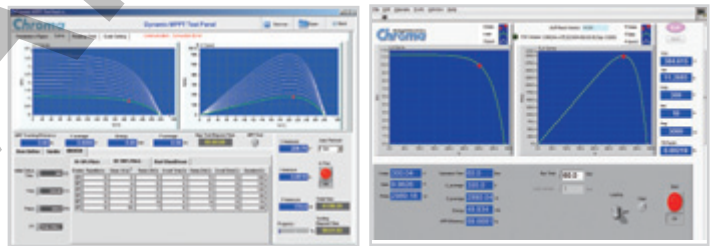
當需要高功率時，一般以並聯或串連方式連接二台或多台電源供應器。62000H系列電源供應器具有主/從控制模式，使串連/並聯操作模式快速又簡易。在此模式中，主單機設定數值並下載資料到從屬單機，因此編程是簡單的且會自動均流使用。



太陽能電池模擬電源應用

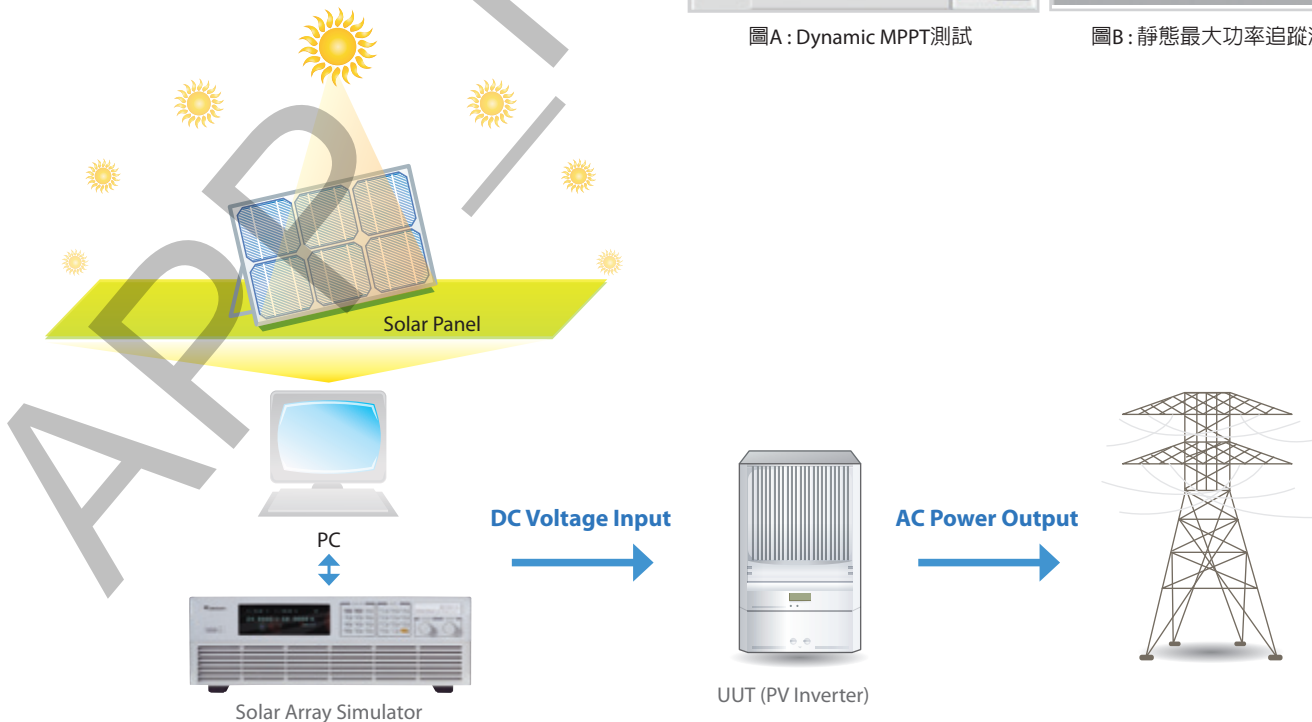
型號62150H-600S/1000S直流電源具有可模擬太陽能板的I-V曲線，使用者可編輯多種不同溫度及照度下的I-V曲線及特殊有遮罩下的曲線，此可應用於太陽能逆變器的最大功率追蹤(MPPT)效能測試。如右圖示A&B，使用者可非常容易地使用SoftPanel軟體編輯I-V曲線後下載至單機內記憶體，並且可即時輸出&量測顯示太陽逆變器的最大功率追蹤狀況及記錄。

*請見Solar Array Simulator型錄得到更多資訊。



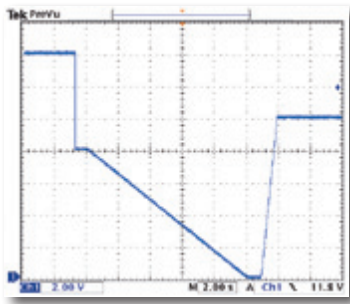
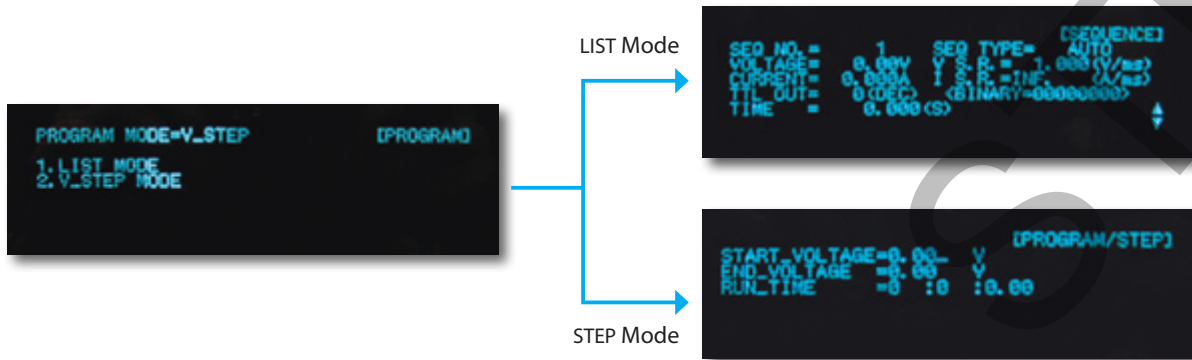
圖A：Dynamic MPPT測試

圖B：靜態最大功率追蹤測試

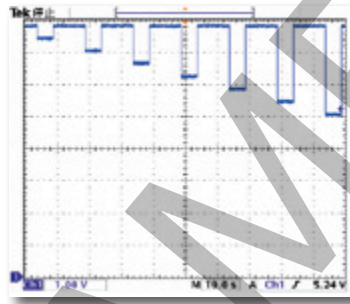


編程自動程序電壓變化應用

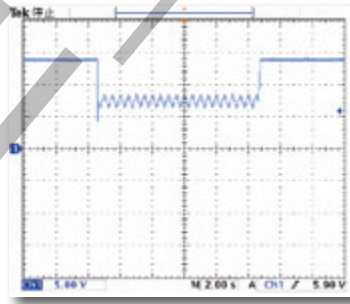
62000H系列電源供應器的LIST和STEP模式提供自動程序功能。LIST模式提供100個使用者可程控排序，具有時間設定範圍從5ms到15000s，還有電壓/電流斜率控制。STEP模式可設定起始、結束電壓，且提供10ms到99 hours的運轉時間予自動測試應用。應用的範圍包括 DC/DC轉換器和反用換流器、電壓漏失測試、引擎啟動模擬、電池自動充電、電池電壓漏失模擬、電子產品生命週期測試與航空電子測試。



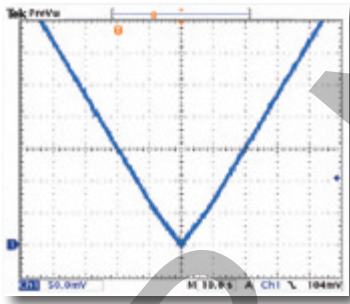
模擬電池供壓瞬降試驗



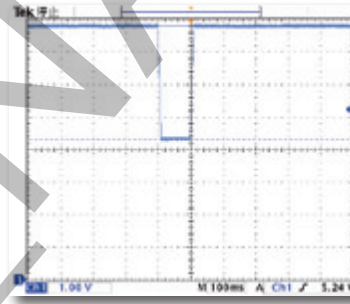
ISO 16750-2降壓重置試驗曲線



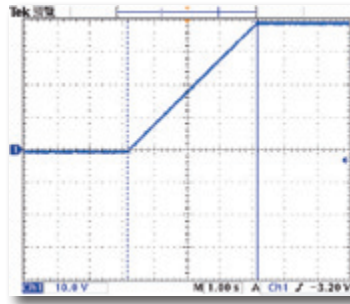
ISO 16750-2啟動電壓曲線試驗



模擬電池緩降及緩升供壓試驗



通訊電源輸入瞬降測試



輸出電壓爬升斜率控制

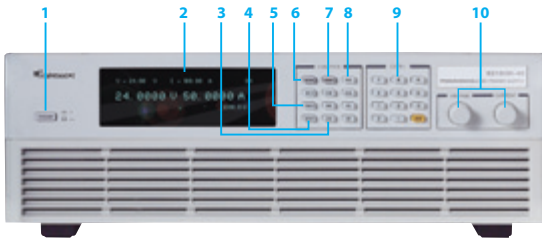


Battery Array Simulation

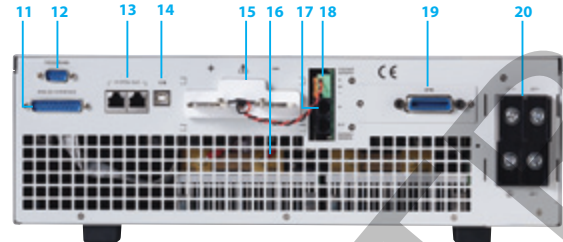


UUT (Hybrid Car)

面板說明



1. AC電源開關
2. VFD顯示器
顯示設定, 量測及操作狀態指示
3. 安全鎖鍵
安全鎖啟動及失能控制
4. 輸出ON/OFF控制鍵
輸出啟動及失能控制
5. CONFIG功能鍵
系統內部參數設定
6. 電壓設定鍵
設定輸出電壓值
7. 電流設定鍵
設定輸出限電流值
8. PROG功能鍵
程序步階電壓及電流設定選擇
9. 數字鍵
數字輸入
10. 旋鈕
旋鈕調整設定參數



11. 類比控制介面
類比輸入/出控制&監控電壓及電流
12. RS-232或RS-485介面 (二選一)
13. 系統控制介面
主從串/並聯用數位訊號溝通介面
14. USB介面
15. 後背板直流輸出端子
輸出連接端子至負載
16. 系統散熱風扇
具有溫控轉速調節
17. 均流端子
主/從並聯使用
18. 遠端壓降補償端子
遠端回授連接端子至負載
19. GPIB或Ethernet介面(二選一,選配)
20. AC輸入端子

訂購資訊

功率輸出範圍	62000H 系列可程控直流電源供應器
2KW	62020H-150S : 可程控直流電源供應器 150V/40A/2KW 具有太陽電池模擬功能
5KW	62050H-40 : 可程控直流電源供應器 40V/125A/5KW
	62050H-450 : 可程控直流電源供應器 450V/11.5A/5KW
	62050H-600 : 可程控直流電源供應器 600V/8.5A/5KW
	62050H-600S : 可程控直流電源供應器 600V/8.5A/5KW 具有太陽電池模擬功能
10KW	62075H-30 : 可程控直流電源供應器 30V/250A/7.5KW
	62100H-30 : 可程控直流電源供應器 30V/375A/11KW
	62100H-40 : 可程控直流電源供應器 40V/250A/10KW
	62100H-100P*3 : 可程控直流電源供應器 100V/250A/10KW
	62100H-450 : 可程控直流電源供應器 450V/23A/10KW
	62100H-600 : 可程控直流電源供應器 600V/17A/10KW
	62100H-600S : 可程控直流電源供應器 600V/17A/10kW 具有太陽電池模擬功能
	62100H-1000 : 可程控直流電源供應器 1000V/10A/10KW
15KW	62150H-40 : 可程控直流電源供應器 40V/375A/15KW
	62150H-100P*3 : 可程控直流電源供應器 100V/375A/15KW
	62150H-450 : 可程控直流電源供應器 450V/34A/15KW
	62150H-600 : 可程控直流電源供應器 600V/25A/15KW
	62150H-600S : 可程控直流電源供應器 600V/25A/15KW 具有太陽電池模擬功能
	62150H-1000 : 可程控直流電源供應器 1000V/15A/15KW
	62150H-1000S : 可程控直流電源供應器 1000V/15A/15kW 具有太陽電池模擬功能
選購配件	A620024 : GPIB 介面卡 (工廠出貨安裝)
	A620025 : Ethernet 介面卡 (工廠出貨安裝)
	A620026 : 19吋機框耳架

註 *1 : 所有機型皆可訂購使用於市電200/220Vac, 380/400Vac與440/480Vac (600V/1000V機型)

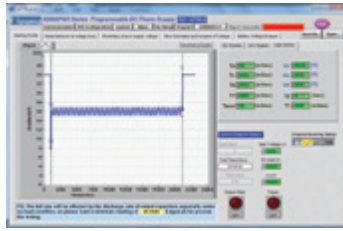
註 *2 : 如需200/220 Vac 或 440/480 Vac (30V/40V/100V/450V)機型, 請連絡致茂辦公室

註 *3 : 62000H-P機型具有功率因數校正>0.98與寬範圍輸出

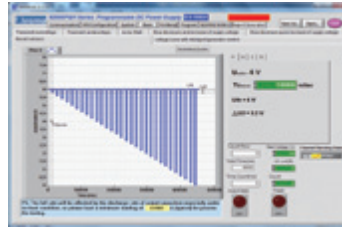
軟體面板



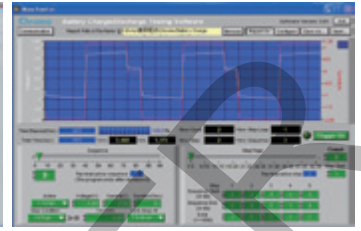
Program Sequences Function



ISO 16750-2 Standard for Voltage Transient Test



GS-95024 Standard for Voltage Transient Test



Battery Charge Test

電氣規格 -1

Model	62075H-30	62050H-40	62050H-450	62050H-600	62100H-30	62100H-40	62100H-100P
Output Ratings							
Output Voltage	0-30V	0-40V	0-450V	0-600V	0-30V	0-40V	0-100V
Output Current	0-250A	0-125A	0-11.5A	0-8.5A	0-375A	0-250A	0-250A
Output Power	7500W	5000W	5000W	5000W	11250W	10000W	10000W
Line Regulation							
Voltage	±0.01% F.S.						
Current	±0.05% F.S.						
Load Regulation							
Voltage	±0.02% F.S.						
Current	±0.1% F.S.						
Voltage Measurement							
Range	6V / 30V	8V / 40V	90V / 450V	120V / 600V	6V / 30V	8V / 40V	20V/100V
Accuracy	0.05% + 0.05% F.S.						
Current Measurement							
Range	50A / 250A	25A / 125A	2.3A / 11.5A	1.7A / 8.5A	75A / 375A	50A / 250A	50A / 250A
Accuracy	0.1% + 0.1% F.S.						
Output Noise & Ripple							
Voltage Noise (P-P)	60mV	60mV	300mV	350mV	60mV	60mV	100mV
Voltage Ripple (rms)	15mV	15mV	450mV	600mV	15mV	15mV	20mV
Current Ripple (rms)	100mA	50mA	20mA	15mA	150mA	100mA	100mA
OVP Adjustment Range							
Range	0-110% programmable from front panel, remote digital inputs						
Accuracy	±1% of full-scale output						
Programming Response Time							
Rise Time: Full Load	6ms	8ms	60ms	60ms	6ms	8ms	20ms
Rise Time: No Load	6ms	8ms	60ms	60ms	6ms	8ms	20ms
Fall Time: Full Load	6ms	8ms	60ms	60ms	6ms	8ms	20ms
Fall Time: 10% Load	100ms	100ms	250ms	250ms	100ms	100ms	625ms
Fall Time: No Load	1s	1s	2.5s	2.5s	1s	1s	2.5s
Slew Rate Control							
Voltage slew rate range	0.001V/ms ~ 5V/ms	0.001V/ms ~ 5V/ms	0.001V/ms ~ 7.5V/ms	0.001V/ms ~ 10V/ms	0.001V/ms ~ 5V/ms	0.001V/ms ~ 5V/ms	0.001V/ms ~ 5V/ms
Current slew rate range	0.001A~1A/ms, or INF						
Min. transition time	0.5ms						
Transient Response Time	Recovers within 1ms to +/- 0.75% of steady-state output for a 50% to 100% or 100% to 50% load change(1A/μs)						
Efficiency (Typical)	0.87	0.87	0.87	0.87	0.87	0.87	0.91
Drift (30 minutes)							
Voltage	0.04% of Vmax						0.01% of Vmax
Current	0.06% of Imax						0.06% of Imax
Drift (8 hours)							
Voltage	0.02% of Vmax						0.005% of Vmax
Current	0.04% of Imax						0.005% of Imax
Temperature Coefficient							
Voltage	0.04% of Vmax/°C						0.005% of Vmax/°C
Current	0.06% of Imax/°C						0.01% of Imax/°C

電氣規格 -2

Model	62100H-450	62100H-600	62100H-1000	62150H-40	62150H-100P	62150H-450	62150H-600	62150H-1000
Output Ratings								
Output Voltage	0-450V	0-600V	0-1000V	0-40V	0-100V	0-450V	0-600V	0-1000V
Output Current	0-23A	0-17A	0-10A	0-375A	0-375A	0-34A	0-25A	0-15A
Output Power	10000W	10000W	10000W	15000W	15000W	15000W	15000W	15000W
Line Regulation								
Voltage	±0.01% F.S.							
Current	±0.05% F.S.							
Load Regulation								
Voltage	±0.02% F.S.	±0.02% F.S.	±0.05% F.S.	±0.02% F.S.	±0.02% F.S.	±0.02% F.S.	±0.02% F.S.	±0.05% F.S.
Current	±0.1% F.S.							
Voltage Measurement								
Range	90V/450V	120V/600V	200V/1000V	8V/40V	20V/100V	90V/450V	120V/600V	200V/1000V
Accuracy	0.05% + 0.05%F.S.							
Current Measurement								
Range	4.6A/23A	3.2A/17A	4A/10A	75A/375A	75A/375A	6.8A/34A	5A/25A	6A/15A
Accuracy	0.1% + 0.1%F.S.							
Output Noise & Ripple								
Voltage Noise(P-P)	300mV	350mV	2550mV	60mV	100mV	300mV	350mV	2550mV
Voltage Ripple(rms)	450mV	600mV	1500mV	15mV	20mV	450mV	600mV	1500mV
Current Ripple(rms)	40mA	30mA	180mA	150mA	100mA	60mA	45mA	270mA
OVP Adjustment Range								
Range	0-110% programmable from front panel, remote digital inputs							
Accuracy	±1% of full-scale output							
Programming Response Time								
Rise Time:Full Load	60ms	60ms	25ms (30% F.S. CC Load)	8ms	20ms	60ms	60ms	25ms (50% F.S. CC Load)
Rise Time:No Load	60ms	60ms	25ms	8ms	20ms	60ms	60ms	25ms
Fall Time: Full Load	60ms	60ms	25ms (50% F.S. CC Load)	8ms	20ms	60ms	60ms	25ms (50% F.S. CC Load)
Fall Time: 10% Load	250ms	250ms	120ms (10% F.S. CC Load)	100ms	625ms	250ms	250ms	80ms (10% F.S. CC Load)
Fall Time: No Load	2.5s	2.5s	3s	1s	2.5s	2.5s	2.5s	3s
Slew Rate Control								
Voltage slew rate range	0.001V/ms ~7.5V/ms	0.001V/ms ~10V/ms	0.001Vms~40V/ms	0.001V/ms ~5V/ms	0.001V/ms ~5V/ms	0.001V/ms ~7.5V/ms	0.001V/ms ~10V/ms	0.001V/ms ~40V/ms
Current slew rate range	0.001A~0.1A/ms, or INF							
Min. transition time	0.5ms							
Transient Response Time	Recovers within 1ms to +/- 0.75% of steady-state output for a 50% to 100% or 100% to 50% load change(1A/μs)							
Efficiency (Typical)	0.87	0.87	0.85	0.87	0.92	0.87	0.87	0.87
Drift (30 minutes)								
Voltage	0.04% of Vmax			0.01% of Vmax		0.04% of Vmax		
Current	0.06% of Imax			0.06% of Imax		0.06% of Imax		
Drift (8 hours)								
Voltage	0.02% of Vmax			0.005% of Vmax		0.02% of Vmax		
Current	0.04% of Imax			0.005% of Imax		0.04% of Imax		
Temperature Coefficient								
Voltage	0.04% of Vmax/°C			0.005% of Vmax/°C		0.04% of Vmax/°C		
Current	0.06% of Imax/°C			0.01% of Imax/°C		0.06% of Imax/°C		

Note *1 : Please specify GPIB or Ethernet Interface (alternative) at time of order.

Note *2 : All models output power are available for 200/220Vac, 380/400Vac and 440/480Vac (600V/1000V models) line voltage.

Note *3 : Call for availability. (30V/40V/100V/450V for 200/220 Vac and 440/480 Vac line voltage)

一般規格表

Programming & Measurement Resolution				
Voltage (Front Panel)		0.1mV / 1mV / 10mV / 100mV (VO < 10V / 40V / 600V / 1000V)		
Current (Front Panel)		0.1mA / 1mA / 10 mA (IO < 10A / 100A / 1000A)		
Voltage (Digital Interface)		0.002% of Vmax		
Current (Digital Interface)		0.002% of Imax		
Voltage (Analog Interface)		0.04% of Vmax		
Current (Analog Interface)		0.04% of Imax		
Remote Interface				
Analog programming		Standard		
USB		Standard		
RS-232		Standard		
RS485		Standard		
GPIB		Optional		
Ethernet		Optional		
System BUS(CAN)		Standard for master/slave control		
Programming Accuracy				
Voltage (Front Panel and Digital Interface)		0.1% of Vmax / 0.05% of Vmax (100P models)		
Current (Front Panel and Digital Interface)		0.3% of Imax / 0.2% of Imax (100P models)		
Voltage (Analog Interface)		0.2% of Vmax		
Current (Analog Interface)		0.3% of Imax		
GPIB Command Response Time				
Vout setting		GPIB send command to DC source receiver <20ms		
Measure V & I		Under GPIB command using Measure <25ms		
Analog Interface (I/O)				
Voltage and Current Programming inputs (I/P)		0-10Vdc / 0-5Vdc / 0-5k ohm / 4-20 mA of F.S.		
Voltage and Current monitor output (O/P)		0-10Vdc / 0-5Vdc / 4-20mA of F.S.		
External ON/OFF (I/P)		TTL:Active Low or High(Selective)		
DC_ON Signal (O/P)		Level by user define. (Time delay = 1 ms at voltage slew rate of 10V/ms.)		
CV or CC mode Indicator (O/P)		TTL Level High=CV mode ; TTL Level Low= CC mode		
OTP Indicator (O/P)		TTL: Active Low		
System Fault indicator(O/P)		TTL: Active Low		
Auxiliary power supply(O/P)		Nominal supply voltage : 12Vdc / Maximum current sink capability: 10mA		
Safety interlock(I/P)		Time accuracy: <100ms		
Remote inhibit(I/P)		TTL: Active Low		
Series & Parallel Operation		Master / Slave control via CAN for 10 units up to 150KW. (Series: two units / Parallel: ten units)		
Auto Sequencing(List Mode)				
Number of program		10		
Number of sequence		100		
Dwell time Range		5ms - 15000S		
Trig. Source		Manual / Auto / External		
Auto Sequencing (Step Mode)				
Start voltage		0 to Full scale		
End voltage		0 to Full scale		
Run time		10ms - 99hours		
Input Specification				
AC input voltage 3phase , 3 wire + ground		3Ø 200~220Vac ± 10% VLL 3Ø 380~400Vac ± 10% VLL 3Ø 440~480Vac ± 10% VLL		
AC frequency range		47-63 Hz		
Max Current (each phase)	200/220 Vac	5KW Model : 39A	10KW Model : 69A	15KW Model : 93A
	380/400 Vac	5KW Model : 22A	10KW Model : 37A/30A *5	15KW Model : 50A/30A *5
	440/480 Vac	5KW Model : 19A	10KW Model : 32A	15KW Model : 44A
General Specification				
Maximum Remote Sense Line Drop Compensation		30V/40V model : 5% of full scale voltage per line(10% total) 100V model : 2.5% of full scale voltage per line (5% total) >100V model : 2% of full scale voltage per line (4% total)		
Operating Temperature Range		0°C ~ 50°C *1		
Storage Temperature Range		-40°C ~ +85°C		
Dimension (HxWxD)		132.8 x 428 x 610 mm / 5.23 x 16.85 x 24.02 inch		
Weight		5KW Model : Approx. 23 kg / 50.66 lbs 10KW Model : Approx. 29 kg / 63.88 lbs *2 *3 15KW Model : Approx. 35 kg / 77.09 lbs *4		

Note*1 : The operating temperature range is 0°C ~ 40°C for Model 62100H-1000/62150H-1000.

Note*2 : The weight is approx. 35kg/77.09 lbs for Model 62100H-1000.

Note*3 : The weight is approx. 31kg/68.34 lbs for Model 62100H-100P.

Note*4 : The weight is approx. 38kg/83.77 lbs for Model 62150H-100P.

Note*5 : Max. input current L1,L3=17.5A & L2=30A for 62100H-100P ; Max. input current L1,L2,L3=30A for 62150H-100P.

電氣規格表-太陽電池陣列模擬電源機種

MODEL	62020H-150S	62050H-600S	62100H-600S	62150H-600S	62150H-1000S
Output Ratings					
Output Voltage	0-150V	0-600V	0-600V	0-600V	0-1000V
Output Current	0-40A	0-8.5A	0-17A	0-25A	0-15A
Output Power	2000W	5000W	10000W	15000W	15000W
Line Regulation					
Voltage	+/- 0.01% F.S.				
Current	+/- 0.05% F.S.				
Load Regulation					
Voltage	+/- 0.05% F.S.				
Current	+/- 0.1% F.S.				
Voltage Measurement					
Range	60V / 150V	120V / 600V	120V / 600V	120V / 600V	200V / 1000V
Accuracy	0.05% + 0.05%F.S.				
Current Measurement					
Range	16A / 40A	3.4A / 8.5A	6.8A / 17A	10A / 25A	6A / 15A
Accuracy	0.1% + 0.1%F.S.				
Output Noise&Ripple					
Voltage Noise(P-P)	450 mV	1500 mV	1500 mV	1500 mV	2550 mV
Voltage Ripple(rms)	65 mV	650 mV	650 mV	650 mV	1950 mV
Current Ripple(rms)	80 mA	150 mA	300 mA	450 mA	270mA
OVP Adjustment Range					
Range	0-110% programmable from front panel, remote digital inputs.				
Accuracy	+/- 1% of full-scale output				
Programming Response Time					
Rise Time: 50%F.S. CC Load	10ms (6.66A loading)	30ms	30ms	30ms	25ms
Rise Time: No Load	10ms	30ms	30ms	30ms	25ms
Fall Time: 50%F.S. CC Load	10ms (6.66A loading)	30ms	30ms	30ms	25ms
Fall Time: 10%F.S. CC Load	83ms (1.33A loading)	100ms	100ms	100ms	80ms
Fall Time: No Load	300ms	1.2s	1.2s	1.2s	3s
Slew Rate Control					
Voltage Slew Rate Range	0.001V/ms - 15V/ms	0.001V/ms - 20V/ms	0.001V/ms - 20V/ms	0.001V/ms - 20V/ms	0.001V/ms - 40V/ms
Current Slew Rate Range	0.001A/ms - 1A/ms, or INF	0.001A/ms - 0.1A/ms, or INF	0.001A/ms - 0.1A/ms, or INF	0.001A/ms - 0.1A/ms, or INF	0.001A/ms - 0.1A/ms, or INF
Minimum Transition Time	0.5ms				
Transient response time	Recovers within 1ms to +/- 0.75% of steady-state output for a 50% to 100% or 100% to 50% load change(1A/us)				
Efficiency	0.77 (Typical)		0.87 (Typical)		
Programming & Measurement Resolution					
Voltage (Front Panel)	10 mV	10 mV	10 mV	10 mV	100mV
Current (Front Panel)	1mA	1mA	1mA	1mA	1mA
Voltage (Digital Interface)	0.002% of Vmax				
Current (Digital Interface)	0.002% of Imax				
Voltage (Analog Interface)	0.04% of Vmax				
Current (Analog Interface)	0.04% of Imax				
Programming Accuracy					
Voltage (Front Panel and Digital Interface)	0.1% of Vmax				
Current (Front Panel and Digital Interface)	0.3% of Imax				
Voltage (Analog Interface)	0.2% of Vmax				
Current (Analog Interface)	0.3% of Imax				
Parallel Operation*1 Master / Slave control via CAN for 10 units up to 150KW. (Parallel: ten units)					
Auto Sequencing (I-V program)					
Number of program	10				
Number of sequence	100				
Dwell time Range	1s - 15,000S				
Trig. Source	Manual / Auto				

All specifications are subject to change without notice. Please visit our website for the most up to date specifications.

Note*1: Max. Power is 20kW for 62020H-150S.

Note*2: There is parallel mode for DC power supply when the I-V curve function is enabled.

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