

3350F/3360F 系列

高功率直流電子負載

特點

- 5位數之數位電壓、電流以及功率錶
- 高速量測及通訊傳輸速率
- 大型 LCD Display、可用飛梭旋鈕或按鍵調整設定值
- 可同時顯示電壓值、電流值、瓦特值
- 可執行 OCP、OPP 測試
- 可設定開機狀態值
- 定電流、定電阻、定電壓、定功率、動態及短路模式
- 於短路測試時可設定短路時間
- 過電壓、電流、功率及溫度保護
- 電壓極性顯示可設成正值 ("+ ") 或負值 (" - ")
- 可選用介面： GPIB、RS232、USB、LAN

GW INSTEK
Simply Reliable

3350F/3360F 系列 高功率直流電子負載

3350F 60 V / 120 A / 1200 W

3351F 60 V / 120 A / 1800 W

3352F 60 V / 240 A / 1200 W

3353F 60 V / 240 A / 1800 W

3354F 60 V / 360 A / 1800 W

3361F 500 V / 40 A / 1200 W

3362F 500 V / 60 A / 1800 W

3367F 500 V / 12 A / 1800 W



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- 過電壓、電流、功率及溫度保護
- 電壓極性顯示可設成正值（“+”）或負值（“-”）
- 可選用介面：GPIB、RS232、USB、LAN
- 9923負載電流波形產生器提供電池實際放電電流波形之模擬（選購）

說 明

- 3350F/3360F系列具有獨立的控制及顯示面板、定電流/定電阻/定電壓/定功率/動態模式，配合面板上的150組 儲存/呼叫 記憶，能有效地控制所有負載的設定，更可透過RS232、Ethernet、USB和GPIB等介面進行遠端控制。
- 具備短路測試功能及設定短路時間，並可量測短路電壓及電流。
- 在定電流及定功率模式下，可做動態負載之模擬，其電流上升、下降斜率均為獨立可調，另具有一外部輸入任意波形之動態負載功能。
- 具有OCP、OPP單鍵測試功能，使得OCP、OPP之測試更有效率及準確。
- 可設定的吃載/停止吃載（LOAD ON/OFF）電壓點及良/不良（GO/NG）的比較判斷功能、電壓極性顯示可正可負及150組 儲存/呼叫 記憶，使得負載更適用於各種不同的應用。
- 多達150組測試參數及狀態的儲存功能，讓其可根據自動測試（auto sequence）需求，隨時將儲存記憶調出來任意使用。
- 3360F 系列因其耐壓高達500 V，故而非常適用於功率因數調整器（PFC）的測試應用。

應 用

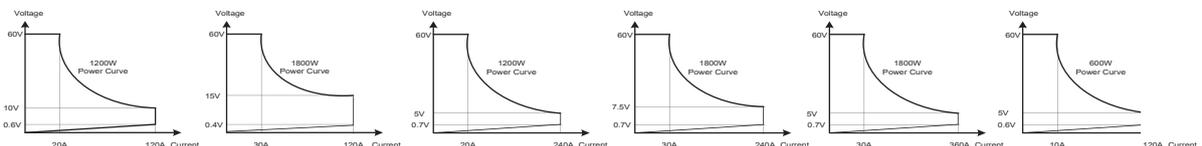
- 電壓/電流源測試
- 交換式電源供應器暫態響應
- 定電壓模式供限流測試及模擬電池
- 電池放電
- 電池充電
- 研發、品管
- ATE系統
- 生產測試

SPECIFICATIONS

Model	3350F	3351F	3352F	3353F	3354F
Power	1200W	1800W	1200W	1800W	1800W
Current	0~120A	0~120A	0~240A	0~240A	0~360A
Voltage	0~60V	0~60V	0~60V	0~60V	0~60V
Min. Operating Voltage	0.6V @ 120A	0.4V @ 120A	0.7V @ 240A	0.7V @ 240A	0.7V @ 360A
Constant Current Mode					
Range ^{*1}	0~12A/120A	0~12A/120A	0~24A/240A	0~24A/240A	0~36A/360A
Resolution	0.2mA/2mA	0.2mA/2mA	0.4mA/4mA	0.4mA/4mA	0.6mA/6mA
Accuracy	± 0.1% OF (Setting + Range)				
Constant Resistance Mode					
Range	0.0083~0.5~30KΩ	0.0083~0.5~30KΩ	0.0041~0.25~15KΩ	0.0041~0.25~15KΩ	0.0027~0.167~10KΩ
Resolution	0.0083mΩ/0.033mS	0.0083mΩ/0.033mS	0.0041mΩ/0.066mS	0.0041mΩ/0.066mS	0.0027mΩ/0.1mS
Accuracy	± 0.2% OF (Setting + Range)				
Constant Voltage Mode					
Range	6V/60V				
Resolution	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV
Accuracy	± 0.05% OF (Setting + Range)				
Constant Power Mode					
Range	120W/1200W	180W/1800W	120W/1200W	180W/1800W	180W/1800W
Resolution	2mW/20mW	3mW/30mW	2mW/20mW	3mW/30mW	3mW/30mW
Accuracy	± 0.5% OF (Setting + Range)				
Dynamic Mode -CC					
Timing					
Thigh & Tlow	0.050~9.999 / 99.99 / 999.9 / 9999mS				
Resolution	0.001 / 0.01 / 0.1 / 1mS				
Accuracy	1uS/10uS/100uS/1mS + 50ppm				
Slew rate	8mA~500mA/uS 80mA~5000mA/uS	8mA~500mA/uS 80mA~5000mA/uS	0.016A~1A/uS 0.16A~10A/uS	0.016A~1A/uS 0.16A~10A/uS	0.024A~1.5A/uS 0.24A~15A/uS
Resolution	2/20mA/uS	2/20mA/uS	0.004/0.04A/uS	0.004/0.04A/uS	0.006/0.06A/uS
Accuracy	(5% of setting) ± 10 uS				
Min. Rise Time	24uS(typical)				
Current					
Range ^{*2}	12A/120A	12A/120A	24A/240A	24A/240A	36A/360A
Resolution	0.2mA/2mA	0.2mA/2mA	0.4mA/4mA	0.4mA/4mA	0.6mA/6mA
Accuracy	± 0.1% OF (Setting + Range)				
Measurement					
Voltage Read Back					
Range (5 Digital)	0~6V/60V	0~6V/60V	0~6V/60V	0~6V/60V	0~6V/60V
Resolution	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV
Accuracy	± 0.025% OF (Reading + Range)				
Current Read Back					
Range (5 Digital)	0~12A/120A	0~12A/120A	0~24A/240A	0~24A/240A	0~36A/360A
Resolution	0.2mA/2mA	0.2mA/2mA	0.4mA/4mA	0.4mA/4mA	0.6mA/6mA
Accuracy	± 0.1% OF (Reading + Range)				
Power Read Back					
Range (5 Digital)	0~1200W	0~1800W	0~1200W	0~1800W	0~1800W
Resolution	0.01W				
Accuracy	± 0.125% OF (Reading + Range)				
Program mode(Mainframe)					
Sequence No.	F1~9/16 Steps				
T1/T2 (Dwell)	0.1S~9.9S/Repeat 9999				
Load Setting(External Programming)	0~10V for CC mode F.S.				
GO/NG Check	Voltage/Current/Power				
Protections					
Over Power	105% of Rated Power				
Over Current	105% of Rated Current				
Over Voltage	105% of Rated Voltage				
Over Temp.	Yes				
Interface(Mainframe)					
RS-232	Optional				
GPIB	Optional				
USB	Optional				
Ethernet	Optional				
Others					
Load ON Voltage					
Range	0.1~25.0V				
Resolution	0.1V				
Accuracy	1% of Setting + 0.25V				
Load OFF Voltage					
Range	0~25V				
Resolution	Same as Voltage Meter				
Accuracy	Same as Voltage Meter				
General					
Short Circuit					
Current	120A	120A	240A	240A	360A
Temperature Coefficient					
	100ppm/°C(typical)				
Power	100Wmax	100Wmax	100Wmax	100Wmax	100Wmax
Operating Temperature ^{*2}					
	0~40°C				
Dimension(HxWxD)					
	177 x 440 x 445 mm/6.97x17.3x17.5 inch				
Weight	19.4 kg / 42.77 lbs	23.6 Kg/52.03 lbs	19.4 kg / 42.77 lbs	23.6 Kg/52.03 lbs	23.6 Kg/52.03 lbs
Safety & EMC					
	CE				

Note ^{*1} : The range is automatically or forcing to range II only in CC mode

Note ^{*2} : Operating temperature range is 0~40°C, All specifications apply for 25°C±5°C

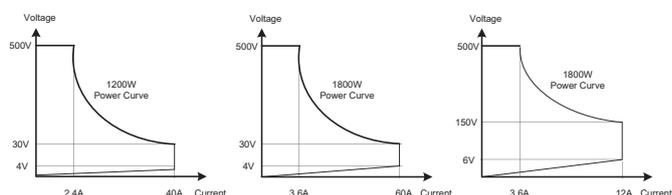


SPECIFICATIONS

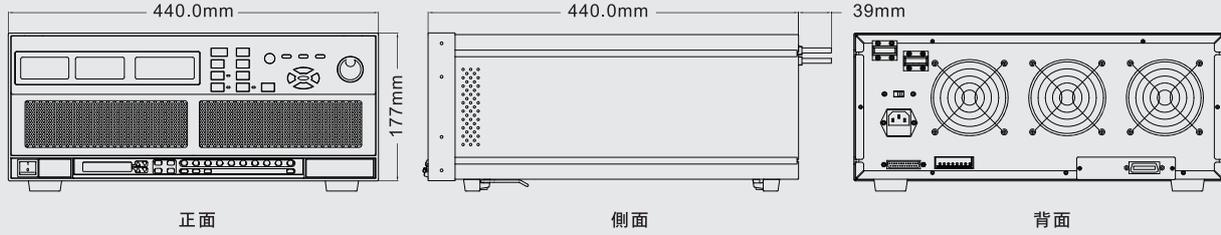
Model	3381F	3382F	3387F
Power	1200W	1800W	1800W
Current	0~40A	0~60A	0~12A
Voltage	0~500V	0~500V	0~500V
Min. Operating Voltage	4V @ 40A	4V @ 60A	6V @ 12A
Constant Current Mode			
Range ¹	0~4.02A/40.2A	0~6A/60A	0~1.2A/12A
Resolution	0.067mA/0.67mA	0.1mA/1mA	0.02mA/0.2mA
Accuracy	± 0.1% OF (Setting + Range)		
Constant Resistance Mode			
Range	0.25~15~900KΩ	0.1666~10~600KΩ	0.8333~50~3000KΩ
Resolution	0.25mΩ/1.1111uS	0.1666mΩ/1.6666uS	0.8333mΩ/0.333uS
Accuracy	± 0.2% OF (Setting + Range)		
Constant Voltage Mode			
Range	60V/500V		
Resolution	1mV/10mV	1mV/10mV	1mV/10mV
Accuracy	± 0.05% OF (Setting + Range)		
Constant Power Mode			
Range	120W/1200W	180W/1800W	180W/1800W
Resolution	2mW/20mW	3mW/30mW	3mW/30mW
Accuracy	± 0.5% OF (Setting + Range)		
Dynamic Mode -CC			
Timing			
Thigh & Tlow	0.050~9.999 / 99.99 / 999.9 / 9999mS		
Resolution	0.001 / 0.01 / 0.1 / 1mS		
Accuracy	1uS/10uS/100uS/1mS + 50ppm		
Slew rate	3.2mA~200mA/uS 32mA~2000mA/uS	4.8mA~300mA/uS 48mA~3000mA/uS	0.96mA~60mA/uS 9.6mA~600mA/uS
Resolution	0.8 / 8mA/uS	1.2 / 12mA/uS	0.24 / 2.4mA/uS
Accuracy	(5% of setting) ± 10 uS		
Min. Rise Time	20uS(typical)		
Current			
Range	4.02A/40.2A	6A/60A	1.2A/12A
Resolution	0.067mA/0.67mA	0.1mA/1mA	0.02mA/0.2mA
Accuracy	± 0.1% OF (Setting + Range)		
Measurement			
Voltage Read Back			
Range (5 Digital)	0~60V/600V		
Resolution	0.001V/0.01V		
Accuracy	± 0.025% OF (Reading + Range)		
Current Read Back			
Range (5 Digital)	0~4.02A/40.2A	0~6A/60A	0~1.2A/12A
Resolution	0.067mA/0.67mA	0.1mA/1mA	0.02mA/0.2mA
Accuracy	± 0.1% OF (Reading + Range)		
Power Read Back			
Range (5 Digital)	0~120W/1200W	0~180W/1800W	0~180W/1800W
Resolution	0.01W		
Accuracy	± 0.125% OF (Reading + Range)		
Program mode(Mainframe)			
Sequence No.	F1~9/16 Steps		
T1/T2 (Dwell)	0.1S~9.9S/Repeat 9999		
Load Setting(External Programming)	0~10V for CC mode F.S.		
GO/NG Check	Voltage/Current/Power		
Protections			
Over Power	105% of Rated Power		
Over Current	105% of Rated Current		
Over Voltage	105% of Rated Voltage		
Over Temp.	Yes		
Interface(Mainframe)			
RS-232	Optional		
GPIB	Optional		
USB	Optional		
Ethernet	Optional		
RS-232 + GPIB	Optional		
Others			
Load ON Voltage			
Range	0.4~100.0V		
Resolution	0.4V		
Accuracy	1% of Setting + 2.5V		
Load OFF Voltage			
Range	0~100V		
Resolution	Same as Voltage Meter		
Accuracy	Same as Voltage Meter		
General			
Short Circuit			
Current	40A	60A	12A
Temperature Coefficient			
	100 ppm/°C(typical)		
Power	100 Wmax	100 Wmax	100 Wmax
Operating Temperature ²	0~40°C		
Dimension(HxWxD)	177 x 440 x 445 mm/6.97x17.3x17.5 inch		
Weight	19.4 Kg/42.77 lbs	23.6 kg / 52.03 lbs	23.6 Kg/52.03 lbs
Safety & EMC	CE		

Note¹ : The range is automatically or forcing to range II only in CC mode

Note² : Operating temperature range is 0~40°C, All specifications apply for 25°C±5°C



3350F	高功率直流電子負載	60 V / 120 A / 1200 W
3351F	高功率直流電子負載	60 V / 120 A / 1800 W
3352F	高功率直流電子負載	60 V / 240 A / 1200 W
3353F	高功率直流電子負載	60 V / 240 A / 1800 W
3354F	高功率直流電子負載	60 V / 360 A / 1800 W
3361F	高功率直流電子負載	500 V / 40 A / 1200 W
3362F	高功率直流電子負載	500 V / 60 A / 1800 W
3367F	高功率直流電子負載	500 V / 12 A / 1800 W



RS232 介面



GPIB 介面



USB 介面



LAN 介面



OPTIONAL ACCESSORIES

RS232 介面	GPIB 纜線長度 1 米
GPIB 介面	GPIB 纜線長度 2 米
USB 介面	USB TYPE A to TYPE B 連接電纜線長度 1.8 米
LAN 介面	

Note: * Regarding the product delivery date, please contact your regional sales representative.

規格若有局部變更，恕不另行通知！ 3350F/3360F_BH1_C_202603

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GW INSTEK

Simply Reliable



 產品操作影片



 最新活動訊息



 產品資料/價格/進型/技術諮詢