3310G 系列 直流電子負載

	Normal mode		Turbo mode
3310G	60V / 30A / 150W	→	60V / 60A / 300W
3311G	60V / 60A / 300W	→	60V / 120A / 600W
3312G	250V / 12A / 300W	→	250V / 24A / 600W
3314G	500V / 12A / 300W	→	500V / 24A / 600W
3315G	60V / 15A / 75W	→	60V / 30A / 150W
3316G	80V / 80A / 400W	→	80V / 160A / 800W
3318G	500V / 20A / 400W	→	500V / 40A / 800W

特　性

- 5位之數位電壓、電流以及功率錶
- 可同時顯示電壓值、電流值、瓦特值
- 大型 LCD Display、可用飛梭旋鈕或按鍵調整設定值
- 不只CC、CR、CP mode具備並聯操作功能，CV mode亦具備並聯操作功能
- 須安裝於機框3302G〔單組框〕3302G機框提供NTC模擬測試功能（選購）、3305G〔雙組框〕或3300G〔四組框〕上，且機框上具有150組 儲存 / 呼叫 記憶
- 可設定開機狀態值
- 於短路測試時可設定短路時間
- 電壓極性顯示可設成正值（"+"）或負值（"－"）
- 具有同步並聯執行之功能（SYNC. Load on）
- 高速Slew rate ：3310G up to 5A/uS，3311G up to10A/uS，3315G up to 2.5A/uS
- 可選用介面 ：GPIB、RS232、USB、LAN
- 支援太陽能板MPPT CC、CR、CV測試
- 提供電池BMS保護板之保護功能測試
- 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）
- 內建測試模式包括 Battery Discharge time, BMS, Fuse / Breaker Trip/Non-Trip, 短路模擬, OCP, OPP 等測試模式
- Turbo mode（倍增模式），能夠在短時間內承受多達2倍電流與功率的電子負載，最適合 Fuse / Breaker 及BMS、短路、OCP、OPP測試。
- 定電流、定電阻、定電壓、定功率、定電流+定電壓、定功率+定電壓、動態及短路模式
- 過電流、功率、溫度保護及過電壓示警

說　明

- 每個3310G系列模組均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3300G機框上的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。
- 於模組上新增的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。
- 針對電池BMS保護板提供Short、OCCP及OCDP之保護功能測試（選購）

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
- 電池放電容量
- 鋰電池BMS充放電保護
- Fuse , Breaker , PTC規格測試
- 太陽能板MPPT
- 研發、品管
- ATE系統
- 生產測試

規　格

MODEL	3310G		3311G		3312G	
Power	150W, 300W max. *1		300W, 600W max. *1		300W, 600W max. *1	
Current	30A, 60A max. *1		60A, 120A max. *1		12A, 24A max. *1	
Voltage	60V		60V		250V	
Min. Operating Voltage	0.3V @ 30A		0.3V @ 60A		1V @ 12A	
PROTECTIONS						
Over Power Protection (OPP)	105%					
Over Current Protection (OCP)	105%					
Over Voltage Protection (OVP)	105%					
Over Temp Protection (OTP)	YES					
Constant Current Mode						
Range *2	0 ~ 3A	0 ~ 30A	0 ~ 6A	0 ~ 60A	0 ~ 1.2A	0 ~ 12A
Resolution	0.05mA	0.5mA	0.1mA	1mA	0.02mA	0.2mA
Accuracy *3	± 0.05% of (Setting + Range)					
Constant Resistance Mode						
Range	2~120KΩ	0.02Ω~2Ω	1Ω~60 KΩ	0.0083Ω~1Ω	25Ω~1500KΩ	0.08Ω~25Ω
Resolution	0.00833mS	0.033mΩ	0.0166mS	0.0166mΩ	0.00066mS	0.4166mΩ
Accuracy	± 0.2% of (Setting + Range)					
Constant Voltage Mode						
Range	0 ~ 6V	0 ~ 60V	0 ~ 6V	0 ~ 60V	0 ~ 30V	0 ~ 250V
Resolution	0.0001V	0.001V	0.0001V	0.001V	0.001V	0.01V
Accuracy	± 0.025% of (Setting + Range)					
Constant Power Mode						
Range	0 ~ 15W	0 ~ 150W	0 ~ 30W	0 ~ 300W	0 ~ 30W	0 ~ 300W
Resolution	0.00025W	0.0025W	0.0005W	0.005W	0.0005W	0.005W
Accuracy *4	± 0.1% of (Setting + Range)					
Constant Voltage + Current Limit Mode						
Range	60V	30A	60V	60A	250V	12A
Resolution	0.001V	0.5mA	0.001V	1mA	0.01V	0.2mA
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
Constant Voltage + Power Limit Mode						
Range	60V	150W	60V	300W	250V	300W
Resolution	0.001V	0.0025W	0.001V	0.005W	0.01V	0.005W
Accuracy	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)	±0.05% of (Setting+Range)	±1.0% of (Setting+Range)
Turbo mode *1	**OFF**	**ON**	**OFF**	**ON**	**OFF**	**ON**
Short/OCP/OPP Test Function						
Maximum Current	30A	60A	60A	120A	12A	24A
Meas. Accuracy	± 1.0% of (Reading + Range)					
Short time	100ms~10 Sec. or Continue	100~2000mS	100ms~10 Sec. or Continue	100~2000mS	100ms~10 Sec. or Continue	100~2000mS
Meas. Accuracy	NA	NA	NA	NA	NA	NA
OCP Time (Tstep)	100mS	20mS	100mS	20mS	100mS	20mS
Meas. Accuracy	NA	NA	NA	NA	NA	NA
OPP Time (Tstep)	100mS	20mS	100mS	20mS	100mS	20mS
Meas. Accuracy	NA	NA	NA	NA	NA	NA

Turbo mode *5	**OFF**	**ON**	**OFF**	**ON**	**OFF**	**ON**	**OFF**	**ON**	**OFF**	**ON**	**OFF**	**ON**
Short time	100ms~10 Sec. or Continue	0.05mS~10ms	100~1000ms	0.05mS~10ms	100ms~10 Sec. or Continue	0.05mS~10ms	100~1000ms	0.05mS~10ms	100ms~10 Sec. or Continue	0.05mS~10ms	100~1000ms	0.05mS~10ms
Meas. Accuracy	NA	±0.005mS	NA	±0.005mS	NA	±0.005mS	NA	±0.005mS	NA	±0.005mS	NA	±0.005mS
OCP Time (Tstep)	100mS	0.05mS~10mS / 11~1000mS	20mS	0.05mS~10mS / 11~1000mS	100mS	0.05mS~10mS / 11~1000mS	20mS	0.05mS~10mS / 11~1000mS	100mS	0.05mS~10mS / 11~1000mS	20mS	0.05mS~10mS / 11~1000mS
Meas. Accuracy	NA	±0.005mS / ±0.2mS	NA	±0.005mS / ±0.2mS	NA	±0.005mS / ±0.2mS	NA	±0.005mS / ±0.2mS	NA	±0.005mS / ±0.2mS	NA	±0.005mS / ±0.2mS

Fuse Test Mode *6						
Trip & Non-Trip Time	1~5999ms, 6~16383sec	1~2000mS	1~5999ms, 6~16383sec	1~2000mS	1~5999ms, 6~16383sec	1~2000mS
Meas. Accuracy	± 0.04mS (<200mS) , ± 20mS (>200mS)					
Repeat Time	0~255					
Surge Test Mode						
Surge current	0~60A		0~120A		0~24A	
Normal current	0~30A		0~60A		0~12A	
Surge Time	10~2000ms					
Surge Step	1~5					
MPPT Mode						
Algorithm	P & O					
Load mode	CV					
P&O interval	1000ms ~ 60000ms					
Resolution	1000mS					
Dynamic Mode (50KHz)						
Timing						
Thigh & Tlow	0.010~9.999 / 99.99 / 999.9 / 9999mS					
Resolution	0.001 / 0.01 / 0.1 / 1mS					
Slew rate	0.008 ~ 0.5A/μS	0.08 ~ 5A/μS	0.016 ~ 1A/μS	0.16 ~ 10A/μS	0.0008 ~ 0.05A/μS	0.008 ~ 0.5A/μS
Accuracy						
Measurement						
Voltage Read Back						
Range (5 Digital)	6V	60V	6V	60V	30V	250V
Resolution	0.0001V	0.001V	0.0001V	0.001V	0.001V	0.01V
Accuracy	± 0.025% of (Reading + Range)					
Current Read Back						
Range (5 Digital)	3A	30A	6A	60A	1.2A	12A
Resolution	0.0001A	0.001A	0.0001A	0.001A	0.00002A	0.0002A
Accuracy	± 0.05% of (Reading + Range)					
Power Read Back						
Range (5 Digital)	15W	150W	30W	300W	30W	300W
Resolution	0.0001W	0.001W	0.001W	0.01W	0.001W	0.01W
Accuracy *7	± 0.125% of (Reading + Range)					
Current Monitor	FULL SCALE 10V					
Accuracy	0.5% of (Setting + Range)					
Current Programming Input	FULL SCALE 10V					
Programmable Short	BUILT-IN					
Load ON Voltage	0.1 ~ 25V		0.1 ~ 25V		0.2 ~ 50V	
Accuracy	1% of (Setting + Range)					
Load OFF Voltage	0 ~ 25V		0 ~ 25V		0 ~ 50V	
Accuracy	0.025% of (Setting + Range)					
Typical Short Resistance (Cont.)	0.0166Ω		0.0083 Ω		0.08 Ω	
Max. Short Current (Cont.)	30A		60A		12A	
Dimension (HxWxD)	143 x 108 x 412 mm					
Operating Temperature *8	0 ~ 40℃					

註*1：最高達2倍額定電流和功率規格的Turbo mode操作模式，可應用於保險絲(Fuse)、BMS、Short / OCP / OPP的測試
註*2：CC Mode可強制於RangeII
註*3：當操作電流低於range 0.1%, accuracy為0.1% F.S.
註*4：當操作功率低於range 2%, accuracy為0.2% of setting + range.
註*5：BMS測試功能主要應用於電池BMS保護板的Short / OCCP及OCDP的測試
註*6：Fuse測試功能主要應用於保險絲(Fuse)及斷路器(Breaker)的測試
註*7：Power range = Vrange F.S. x Irange F.S.
註*8：操作溫度範圍為0~40°C，此規格表內精確度僅適用於25°C±5°C

訂　購　方　式

直流電子負載模組

- **3310G** 60V，30A，150W
- **3311G** 60V，60A，300W
- **3312G** 250V，12A，300W

電子負載機框 選購介面：❶ GPIB Card ❷ RS232 Card ❸ USB Card ❹ LAN Card

3302G（單組框）
5.5kg / W160mm / H177mm / D452mm

3305G（雙組框）
7.5kg / W269mm / H177mm / D452mm

3300G（四組框）
9.3kg / W440mm / H177mm / D445mm

高速Slew rate：
3310G ▶ 5A/μs　3315G ▶ 2.5A/μs
3311G ▶ 10A/μs
選購功能：NTC 模擬電阻
❶ 10KΩ NTC（100~500KΩ）
❷ 100KΩ NTC（1000~5MΩ）

規　格

MODEL	3314G				3315G			
Power	300W, 600W max. *1				75W, 150W max. *1			
Current	12A, 24A max. *1				15A, 30A max. *1			
Voltage	500V				60V			
Min. Operating Voltage	6V @ 12A				0.25V @ 15A			
PROTECTIONS								
Over Power Protection (OPP)	105%							
Over Current Protection (OCP)	105%							
Over Voltage Protection (OVP)	105%							
Over Temp Protection (OTP)	YES							
Constant Current Mode								
Range *2	0 ~ 1.2A		0 ~ 12A		0 ~ 1.5A		0 ~ 15A	
Resolution	0.02mA		0.2mA		0.0254mA		0.25mA	
Accuracy *3	± 0.05% of (Setting + Range)							
Constant Resistance Mode								
Range	50 ~ 3000KΩ		0.5Ω ~ 50Ω		4Ω ~ 240 KΩ		0.02Ω ~ 4Ω	
Resolution	0.000333mS		0.8333mΩ		0.04166mS		0.0666mΩ	
Accuracy	± 0.2% of (Setting + Range)							
Constant Voltage Mode								
Range	0 ~ 60V		0 ~ 60V		0 ~ 6V		0 ~ 60V	
Resolution	0.001V		0.001V		0.0001V		0.001V	
Accuracy	± 0.025% of (Setting + Range)							
Constant Power Mode								
Range	0 ~ 30W		0 ~ 300W		0 ~ 7.5W		0 ~ 75W	
Resolution	0.001W		0.01W		0.000125W		0.00125W	
Accuracy *4	± 0.1% of (Setting + Range)							
Constant Voltage + Current Limit Mode								
Range	500V		12A		60V		15A	
Resolution	0.01V		0.2mA		0.001V		0.25mA	
Accuracy	±0.05% of (Setting+Range)		±1.0% of (Setting+Range)		±0.05% of (Setting+Range)		±1.0% of (Setting+Range)	
Constant Voltage + Power Limit Mode								
Range	500V		300W		60V		75W	
Resolution	0.01V		0.01W		0.001V		0.00125W	
Accuracy	±0.05% of (Setting+Range)		±1.0% of (Setting+Range)		±0.05% of (Setting+Range)		±1.0% of (Setting+Range)	
Turbo mode *1	**OFF**		**ON**		**OFF**		**ON**	
Short/OCP/OPP Test Function								
Maximum Current	12A		24A		15A		30A	
Meas. Accuracy	± 1.0% of (Reading + Range)							
Short time	100ms~10 Sec.		100~2000mS		100ms~10 Sec.		100~2000mS	
Meas. Accuracy	NA		NA		NA		NA	
OCP Time (Tstep)	100mS		20mS		100mS		20mS	
Meas. Accuracy	NA		NA		NA		NA	
OPP Time (Tstep)	100mS		20mS		100mS		20mS	
Meas. Accuracy	NA		NA		NA		NA	
Turbo mode *5	**OFF**	**ON**	**OFF**	**ON**	**OFF**	**ON**	**OFF**	**ON**
Short time	100ms~10 Sec. or Continue	0.05mS~10ms	100~1000ms	0.05mS~10ms	100ms~10 Sec. or Continue	0.05mS~10ms	100~1000ms	0.05mS~10ms
Meas. Accuracy	NA	±0.005mS	NA	±0.005mS	NA	±0.005mS	NA	±0.005mS
OCP Time (Tstep)	100mS	0.05mS~10mS / 11~1000mS	20mS	0.05mS~10mS / 11~1000mS	100mS	0.05mS~10mS / 11~1000mS	20mS	0.05mS~10mS / 11~1000mS
Meas. Accuracy	NA	±0.005mS / ±0.2mS	NA	±0.005mS / ±0.2mS	NA	±0.005mS / ±0.2mS	NA	±0.005mS / ±0.2mS
Fuse Test Mode *6								
Trip & Non-Trip Time	1~5999ms, 6~16383sec		1~2000mS		1~5999ms, 6~16383sec		1~2000mS	
Meas. Accuracy	± 0.04mS (<200mS) , ± 20mS (>200mS)							
Repeat Time	0~255							
Surge Test Mode								
Surge current	0~24A				0~30A			
Normal current	0~12A				0~15A			
Surge Time	10~2000ms							
Surge Step	1~5							
MPPT Mode								
Algorithm	P & O							
Load mode	CV							
P&O interval	1000ms ~ 60000ms							
Resolution	1000mS							
Dynamic Mode (50KHz)								
Timing								
Thigh & Tlow	0.010~9.999 / 99.99 / 999.9 / 9999mS							
Resolution	0.001 / 0.01 / 0.1 / 1mS							
Slew rate	0.0008 ~ 0.05A/μS		0.008 ~ 0.5A/μS		0.004 ~ 0.25A/μS		0.04 ~ 2.5A/μS	
Accuracy	± (5% of Setting) ±10μS							
Measurement								
Voltage Read Back								
Range (5 Digital)	60V		600V		6V		60V	
Resolution	0.001V		0.01V		0.0001V		0.001V	
Accuracy	± 0.025% of (Reading + Range)							
Current Read Back								
Range (5 Digital)	1.2A		30A		1.5A		15A	
Resolution	0.0001A		0.001A		0.00001A		0.001A	
Accuracy	± 0.05% of (Reading + Range)							
Power Read Back								
Range (5 Digital)	30W		300W		7.5W		75W	
Resolution	0.0001A		0.001A		0.0001W		0.001W	
Accuracy *7	± 0.1% of (Reading + Range)							
Current Monitor	FULL SCALE 10V							
Accuracy	0.5% of (Setting + Range)							
Current Programming Input	FULL SCALE 10V							
Programmable Short	BUILT-IN							
Load ON Voltage	0.4 ~ 100V				0.1 ~ 25V			
Accuracy	1% of (Setting + Range)							
Load OFF Voltage	0 ~ 100V				0 ~ 25V			
Accuracy	0.025% of (Setting + Range)							
Typical Short Resistance (Cont.)	0.5 Ω				0.02 Ω			
Max. Short Current (Cont.)	12A				15A			
Dimension (HxWxD)	143 x 108 x 412 mm							
Operating Temperature *8	0 ~ 40℃							

註*1：最高達2倍額定電流和功率規格的Turbo mode操作模式，可應用於保險絲(Fuse)、BMS、Short / OCP / OPP的測試
註*2：CC Mode可強制於RangeII
註*3：當操作電流低於range 0.1%, accuracy為0.1% F.S.
註*4：當操作功率低於range 2%, accuracy為0.2% of setting + range.
註*5：BMS測試功能主要應用於電池BMS保護板的Short / OCCP及OCDP的測試
註*6：Fuse測試功能主要應用於保險絲(Fuse)及斷路器(Breaker)的測試
註*7：Power range = Vrange F.S. x Irange F.S.
註*8：操作溫度範圍為0~40°C，此規格表內精確度僅適用於25°C±5°C

訂　購　方　式

直流電子負載模組

- **3314G** 500V，12A，300W
- **3315G** 60V，15A， 75W

電子負載機框 選購介面：❶ GPIB Card ❷ RS232 Card ❸ USB Card ❹ LAN Card

3302G（單組框）
5.5kg / W160mm / H177mm / D452mm

3305G（雙組框）
7.5kg / W269mm / H177mm / D452mm

3300G（四組框）
9.3kg / W440mm / H177mm / D445mm

高速Slew rate：
3310G ▶ 5A/us　3315G ▶ 2.5A/us
3311G ▶ 10A/us
選購功能：NTC 模擬電阻
❶ 10KΩ NTC（100~500KΩ）
❷ 100KΩ NTC（1000~5MΩ）

規　格

MODEL	3316G		3318G	
Power	400W, 800W max. *1		400W, 800W max. *1	
Current	80A /160A max. *1		20A / 40A max. *1	
Voltage	80V		500V	
Min. Operating Voltage	0.8V @ 80A		4V @ 20A	
PROTECTIONS				
Over Power Protection(OPP)	105%			
Over Current Protection(OCP)	105%			
Over Voltage Protection(OVP)	105%			
Over Temp Protection(OTP)	YES			
Constant Current Mode				
Range *2	0 ~ 8.04A	0 ~ 80A	0 ~ 2.04A	0 ~20A
Resolution	0.134mA	1.34mA	0.034mA	0.34mA
Accuracy *3	± 0.05% of (setting + Range)			
Constant Resistance Mode				
Range	1Ω~ 60KΩ	0.0083Ω ~ 1Ω	30Ω~ 1800KΩ	0.3Ω ~ 30Ω
Resolution	0.0166mS	0.0166mΩ	0.000555mS	0.5mΩ
Accuracy	± 0.2% of (Setting + Range)			
Constant Voltage Mode				
Range	0 ~ 8.04V	0 ~ 80V	60V	500V
Resolution	0.000134V	0.00134V	0.001V	0.01V
Accuracy	± 0.025% of (Setting + Range)			
Constant Power Mode				
Range	0 ~ 40.02W	0 ~ 400W	0 ~ 40.02W	0 ~ 400W
Resolution	0.667mW	6.67mW	0.667mW	6.67mW
Accuracy *4	± 0.1% of (Setting + Range)			
Constant Voltage + Current Limit Mode				
Range	80V	80A	500V	20A
Resolution	0.00134V	1.34mA	0.01V	0.34mA
Accuracy	± 0.05% of (Setting + Range)	± 1.0% of (Setting + Range)	± 0.05% of (Setting + Range)	± 1.0% of (Setting + Range)
Constant Voltage + Power Limit Mode				
Range	80V	400W	500V	400W
Resolution	0.00134V	6.67mW	0.01V	6.67mW
Accuracy	± 0.05% of (Setting + Range)	± 1.0% of (Setting + Range)	± 0.05% of (Setting + Range)	± 1.0% of (Setting + Range)
Turbo mode *1	**OFF**	**ON**	**OFF**	**ON**
Short/OCP/OPP Test Function				
Meas. Accuracy	± 3.0% of (Reading + Range)			
Maximum Current	80A	160A	20A	40A
Short Time	100ms~10 Sec. or Continue	100~2000ms	100ms~10 Sec. or Continue	100~2000ms
Meas. Accuracy	NA			
OCP Time (Tstep)	100ms	20ms	100ms	20ms
Meas. Accuracy	NA			
OPP Time (Tstep)	100ms	20ms	100ms	20ms
Meas. Accuracy	NA			
BMS Test Mode *5				
Short Time	0.05mS~10ms	0.05mS~10ms	0.05mS~10ms	0.05mS~10ms
Meas. Accuracy	±0.005mS			
OCP Time (Tstep)	0.05mS~10ms / 11~1000ms	0.05mS~10ms / 11~1000ms	0.05mS~10ms / 11~1000ms	0.05mS~10ms / 11~1000ms
Meas. Accuracy	±0.005mS / ±0.2mS			
Fuse Test Mode *6				
Trip & Non-Trip Time	r1:1~5999ms, r2:6~16383sec	1~2000mS	r1:1~5999ms, r2:6~16383sec	1~2000mS
Meas. Accuracy	r1 : ±0.2mS(<200mS), ±20mS(>200mS), r2: ±0.5S			
Repeat Cycle	0~255			
Surge Test Mode				
Surge current	0~160A		0~40A	
Normal current	0~80A		0~20A	
Surge Time	10~2000ms			
Surge Step	1~5			
MPPT Mode				
Algorithm	P&O			
Load mode	CV			
P&O interval	1000ms ~ 60000ms			
Resolution	1000ms			
Dynamic Mode (50KHz)				
Timing				
Thigh & Tlow	0.010~9.999 / 99.99 / 999.9 / 9999mS			
Resolution	0.001 / 0.01 / 0.1 / 1mS			
Slew rate	5.4 ~ 337.5mA/μs	54~ 3375mA/μs	1.28 ~ 80mA/μs	12.8 ~ 800mA/μs
Accuracy	± (5% of Setting) ±10μS			
Measurement				
Voltage Read Back				
Range (5 Digital)	8.04V	80V	60V	500V
Resolution	0.000134V	0.00134V	0.001V	0.01V
Accuracy	± 0.025% of (Reading + Range)			
Current Read Back				
Range (5 Digital)	8.04A	80A	2.1A	20A
Resolution	0.000134A	0.00134A	0.000034A	0.00034A
Accuracy	± 0.05% of (Reading + Range)			
Power Read Back				
Range (5 Digital)	400W		400W	
Resolution	0.01W		0.01W	
Accuracy *7	± 0.1% of (Reading + Range)			
Current Monitor	FULL SCALE 10V			
Accuracy	0.5% of (Setting + Range)			
Current Programming Input	FULL SCALE 10V			
Programmable Short	BUILT-IN			
Load ON Voltage	0.1 ~ 25V		0.4~100V	
Accuracy	1% of (Setting + Range)			
Load OFF Voltage	0 ~ 24.866V		0~99V	
Accuracy	0.025% of (Setting + Range)			
Typical Short Resistance	0.009Ω		0.15Ω	
Maximum Short Current	80A		20A	
Dimension(HxWxD)	143 x 108 x 412 mm			
Operating Temperature *8	0 ~ 40°C			

註*1：最高達2倍額定電流和功率規格的Turbo mode操作模式，可應用於保險絲(Fuse)、BMS、Short / OCP / OPP的測試
註*2：CC Mode可強制於RangeII
註*3：當操作電流低於range 0.1%, accuracy為0.1% F.S.
註*4：當操作功率低於range 2%, accuracy為0.2% of setting + range.
註*5：BMS測試功能主要應用於電池BMS保護板的Short / OCCP及OCDP的測試
註*6：Fuse測試功能主要應用於保險絲(Fuse)及斷路器(Breaker)的測試
註*7：Power range = Vrange F.S. x Irange F.S.
註*8：操作溫度範圍為0~40°C，此規格表內精確度僅適用於25°C±5°C

訂　購　方　式

直流電子負載模組

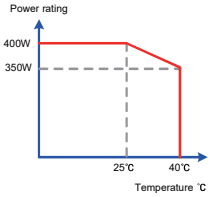
- **3316G**
  80V，80A，400W
- **3318G**
  500V，20A，400W

電子負載機框 選購介面：❶ GPIB Card ❷ RS232 Card ❸ USB Card ❹ LAN Card

3302G（單組框）
5.5kg / W160mm / H177mm / D452mm

3305G（雙組框）
7.5kg / W269mm / H177mm / D452mm

3300G（四組框）
9.3kg / W440mm / H177mm / D445mm



功率 vs 溫度曲線圖