

3310G 系列

直流电子负载 75W~400W



DC ELECTRONIC LOAD



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	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位之数位电压、电流以及功率表。
- 可同时显示电压值、电流值、瓦特值。
- 大型 LCD Display、可用飞梭旋钮或按键调整设定值。
- 不只CC、CR、CP mode具备并联操作功能，CV mode亦具备并联操作功能。
- 须安装于机框3302G〔单个插槽机框〕3302G机框提供NTC模拟测试功能（选购）、3305G〔二个插槽机框〕或3300G〔四个插槽机框〕上，且机框上具有150组 储存/呼叫 记忆。
- 可设定开机状态值。
- 短路测试时可设定短路时间。
- 电压极性显示可设成正值（“+”）或负值（“-”）。
- 具有同步并联执行之功能（SYNC. Load on）。
- 选购功能（高速Slew rate）：3310G up to 5A/uS，3311G up to 10A/uS，3315G up to 2.5A/uS
- 可选用介面：GPIB、RS232、USB、LAN。
- 支援太阳能板MPPT CC、CR、CV测试
- 提供电池BMS保护板之保护功能测试
- 9923负载电流波形产生器提供电池实际放电电流波形之模拟（选购）
- 内建测试模式包括 Battery Discharge time, BMS, Fuse/Breaker Trip/Non-Trip, 短路模拟, OCP, OPP 等测试模式。
- Turbo mode（倍增模式），能够在短时间内承受多达2倍电流与功率的电子负载，最适合 Fuse/Breaker 及BMS、短路、OCP、OPP测试。
- 定电流、定电阻、定电压、定功率、定电流+定电压、定功率+定电压、动态及短路模式
- 过电流、功率、温度保护及过电压示警

说 明

- 每个3310G系列模组均有独立的控制及显示面板、定电流 / 定电阻 / 定电压 / 定功率 / 定电流+定电压 / 定功率+定电压 / 动态模式，配合3300G机框上的150组 储存/呼叫 记忆，能有效地控制所有负载的设定，更可透过RS232、Ethernet、USB和GPIB等介面进行远端控制。
- 具备短路测试功能及设定短路时间，并可量测短路电压及电流。
- 在定电流及定功率模式下，可做动态负载之模拟，其电流上升、下降斜率均为独立可调，另具有一外部输入任意波形之动态负载功能。
- 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。
- 可设定的吃载/停止吃载（LOAD ON/OFF）电压点及良/不良（GO/NG）的比较判断功能、电压极性显示可正可负及150组 储存/呼叫 记忆，使得负载更适用于各种不同的应用。
- 多达150组测试参数及状态的储存功能，让其可根据自动测试（auto sequence）需求，随时将储存记忆调出来任意使用
- 针对电池BMS保护板提供Short、OCCP及OCDP之保护功能测试（选购）

应 用

- 电压/电流源测试
- 交换式电源供应器暂态响应
- 定电压模式供限流测试及模拟电池
- 电池放电容量
- 锂电池BMS充放电保护
- Fuse, Breaker, PTC 规格测试
- 太阳能板MPPT
- 研发、品管
- ATE系统
- 生产测试

规格

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}												
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°C											

注*1：最高达2倍额定电流和功率规格的Turbo mode操作模式，可应用于保险丝(Fuse)、BMS、Short / OCP / OPP的测试

注*2：CC Mode可强制于Rangell

注*3：当操作电流低于range 0.1%, accuracy为0.1% F.S.

注*4：当操作功率低于range 2%, accuracy为0.2% of setting + range.

注*5：BMS测试功能主要应用于电池BMS保护板的Short / OCCP及OCDP的测试

注*6：Fuse测试功能主要应用于保险丝(Fuse)及断路器(Breaker)的测试

注*7：Power range = Vrange F.S. x Irange F.S.

注*8：操作温度范围为0~40°C，此规格表内精确度仅适用于25°C±5°C

订购方式

直流电子负载模组

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



电子负载机框 选购介面：

- ① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card



高速Slew rate：
3310G ▶ 5A/μs 3315G ▶ 2.5A/μs
3311G ▶ 10A/μs

选购功能：NTC 模拟电阻

① 10KΩ NTC (100~500KΩ)

② 100KΩ NTC (1000~5MΩ)

规格

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}						
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
Short time	100ms~10 Sec. or Continue	0.05mS~10ms	100~1000ms	0.05mS~10ms	100ms~10 Sec. or Continue	0.05mS~10ms
Meas. Accuracy	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
Meas. Accuracy	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	
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		
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°C					

注*1：最高达2倍额定电流和功率规格的Turbo mode操作模式，可应用于保险丝(Fuse)、BMS、Short / OCP / OPP的测试

注*2：CC Mode可强制于Rangell

注*3：当操作电流低于range 0.1%, accuracy为0.1% F.S.

注*4：当操作功率低于range 2%, accuracy为0.2% of setting + range.

注*5：BMS测试功能主要应用于电池BMS保护板的Short / OCP及OCPD的测试

注*6：Fuse测试功能主要应用于保险丝(Fuse)及断路器(Breaker)的测试

注*7：Power range = Vrange F.S. x Irange F.S.

注*8：操作温度范围为0~40°C，此规格表内精确度仅适用于25°C±5°C

订购方式

直流电子负载模组

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



电子负载机框 选购介面：

- ① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card



高速Slew rate：
3310G ▶ 5A/us 3315G ▶ 2.5A/us
3311G ▶ 10A/us

- 选购功能：NTC 模拟电阻
① 10KΩ NTC (100~500KΩ)
② 100KΩ NTC (1000~5MΩ)

规格

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		

注*1：最高达2倍额定电流和功率规格的Turbo mode操作模式，可应用于保险丝(Fuse)、BMS、Short / OCP / OPP的测试

注*2：CC Mode可强制于Rangell

注*3：当操作电流低于range 0.1%, accuracy为0.1% F.S.

注*4：当操作功率低于range 2%, accuracy为0.2% of setting + range.

注*5：BMS测试功能主要应用于电池BMS保护板的Short / OCCP及OCDP的测试

注*6：Fuse测试功能主要应用于保险丝(Fuse)及断路器(Breaker)的测试

注*7：Power range = Vrange F.S. x Irange F.S.

注*8：操作温度范围为0~40°C，此规格表内精确度仅适用于25°C±5°C

订购方式

直流电子负载模组

- 3316G
80V · 80A · 400W
- 3318G
500V · 20A · 400W

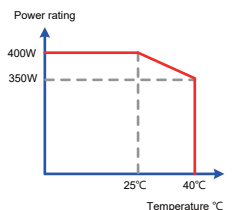


电子负载机框 选购介面：① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card

3302G (单个插槽机框)
5.5kg / W160mm / H177mm / D452mm

3305G (二个插槽机框)
7.5kg / W269mm / H177mm / D452mm

3300G (四个插槽机框)
9.3kg / W440mm / H177mm / D445mm



功率 vs 温度曲线图