



<b>3341G</b>	300V, 24A, 300W
<b>3342G</b>	500V, 12A, 300W
<b>3343G</b>	500V, 24A, 300W
<b>33401G</b>	500V, 6A, 150Wx2

### Features

- LED mode load for LED Power Driver test.
- CC, CR, CV, CP, LED and Dynamic mode.
- Simulate LED Forward Bias Voltage ( $V_d$ ) and Resistance ( $R_d$ ).
- Fast Response for PWM dimming test.
- Built-in dimming control signal for PWM dimming test.
- Short circuit test by external relay (built-in short relay driver circuit).
- 5 digital V / A / W Meter.
- Protections against V, I, W, and  $^{\circ}\text{C}$ .
- Can be configured in 3302F [ single channel mainframe ] 、 3305F [ two channels mainframe ] or 3300F [ four channels mainframe ] and the mainframe with 150 sets Store / Recall memory.
- Optional Interface : GPIB 、 RS232 、 USB 、 LAN.

### Descriptions

- Each 3340G Series module has its own control and display panel, LED/CC/CR/CV/CP/ Dynamic modes, plug in 3300F with 150 sets Store/Recall memory which provides load set-up more efficiently , also can be controlled intranet via RS232 、 Ethernet 、 USB and GPIB interface.
- Short circuit test by external relay (there is an optional fixture for short), Short Time can be set and Short Voltage can be measured.
- Built-in dimming control signal output is for PWM dimming test.
- Simulate LED forward Bias voltage ( $V_d$ ) and Resistance ( $R_d$ ).
- Programmable Load ON/OFF voltage, GO/NG meter check, Voltage meter display " + " or " - " is selectable and 150 sets Store/Recall larger memory is much advance feature for each different application.
- 150 sets test parameter and status storage function can call the storage memory real time in accordance with the auto sequence requirement.

### Applications

- LED Driver
- Voltage / Current source
- SMPS transient response
- Current limit testing and battery emulation
- Battery charger
- Battery discharge
- R&D / Quality Control
- ATE system
- Production testing

**Prodigit Electronics Co., Ltd.**

8F., No.88, Baojhong Rd., Sindian District 23144, New Taipei City, Taiwan (R.O.C.)

TEL : 886-2-2918-2620

FAX : 886-2-2912-9870

http : //www.prodigit.com.tw

E-mail : sales@prodigit.com.tw

## Specifications

MODEL	3341G		3342G		3343G		33401G	
Power	300W		300W		300W		150Wx2	
Current	0 ~ 6A	0 ~ 24A	0 ~ 3A	0 ~ 12A	0 ~ 6A	0 ~ 24A	0 ~ 1.5A	0 ~ 6A
Voltage	0 ~ 300V		0 ~ 500V		0 ~ 500V		0 ~ 500V	
Min. Operating Voltage	3V@24A		6V@12A		6V@24A		4V@6A	
<b>Constant Current Mode</b>								
Range*1	0 ~ 6A	0 ~ 24A	0 ~ 3A	0 ~ 12A	0 ~ 6A	0 ~ 24A	0 ~ 1.5A	0 ~ 6A
Resolution	0.1mA	0.4mA	0.05mA	0.2mA	0.1mA	0.4mA	0.025mA	0.1mA
Accuracy	± 0.1% OF (SETTING + RANGE)							
<b>Constant Resistance Mode</b>								
Range	CRL:0.125Ω~1.5KΩ (150V)	CRH:0.25Ω~3KΩ (300V)	CRL:0.5Ω~1.5KΩ (300V)	CRH:1Ω~3KΩ (500V)	CRL:0.25Ω~3KΩ (300V)	CRH:0.5Ω~6KΩ (500V)	CRL:1Ω~3KΩ (300V)	CRH:2Ω~6KΩ (500V)
Resolution	133.333μS	66.666μS	33.333μS	16.666μS	66.666μS	33.333μS	16.666μS	8.333μS
Accuracy	± 0.2% OF (SETTING + RANGE)							
<b>Constant Voltage Mode</b>								
Range	30V / 150V / 300V		60V / 300V / 500V		60V / 300V / 500V		60V / 300V / 500V	
Resolution	0.0005V / 0.0025V / 0.005V		0.001V / 0.005V / 0.01V		0.001V / 0.005V / 0.01V		0.001V / 0.005V / 0.01V	
Accuracy	± 0.05% OF (SETTING + RANGE)							
<b>Constant Power Mode</b>								
Range	0 ~ 300W		0 ~ 300W		0 ~ 300W		NA	
Resolution	0.005W		0.005W		0.005W		NA	
Accuracy	± 0.5% OF (SETTING + RANGE)							
<b>LED Mode</b>								
Vo Voltage Range	LEDL:30V/LEDM:150V/LEDH:300V		LEDL:60V/LEDM:300V/LEDH:500V		LEDL:60V/LEDM:300V/LEDH:500V		LEDL:60V/LEDM:300V/LEDH:500V	
Rd Resistance Range	LEDL : 0.125~125Ω@Vo-Vd=0~3V LEDL : 1.25~1.25KΩ@Vo-Vd=3~30V LEDM : 0.625~6.25Ω@Vo-Vd=0~15V LEDM : 6.25~6.25KΩ@Vo-Vd=15~150V LEDH : 1.25~1.25KΩ@Vo-Vd=0~30V LEDH : 12.5~12.5KΩ@Vo-Vd=30~300V		LEDL : 0.5~100Ω@Vo-Vd=0~6V LEDL : 5~1KΩ@Vo-Vd=6~60V LEDM : 2.5~500Ω@Vo-Vd=0~30V LEDM : 25~5KΩ@Vo-Vd=30~300V LEDH : 5~1KΩ@Vo-Vd=0~60V LEDH : 50~10KΩ@Vo-Vd=60~500V		LEDL : 0.25~125Ω@Vo-Vd=0~6V LEDL : 2.5~1.25KΩ@Vo-Vd=6~60V LEDM : 1.25~6.25Ω@Vo-Vd=0~30V LEDM : 12.5~6.25KΩ@Vo-Vd=30~300V LEDH : 2.5~1.25KΩ@Vo-Vd=0~60V LEDH : 25~12.5KΩ@Vo-Vd=60~500V		LEDL : 1~200Ω@Vo-Vd=0~6V LEDL : 10~2KΩ@Vo-Vd=6~60V LEDM : 5~1KΩ@Vo-Vd=0~30V LEDM : 50~10KΩ@Vo-Vd=30~300V LEDH : 10~2KΩ@Vo-Vd=0~60V LEDH : 100~20KΩ@Vo-Vd=60~500V	
Resolution	16Bits							
Accuracy	Vd : ± (0.05% OF SETTING + 0.1% OF RANGE), Rd : ± (0.05% OF SETTING + 0.1% OF RANGE)							
<b>Dynamic Mode</b>								
<b>Timing</b>								
THIGH & TLOW	0.050 ~ 9.999 / 99.99 / 999.9 / 9999ms							NA
Resolution	0.001 / 0.01 / 0.1 / 1ms							NA
Accuracy	1μS / 10μS / 100μS / 1ms + 50ppm							NA
Slew Rate	4.8~300mA/μS	19.2~1200mA/μS	2.4~150mA/μS	9.6~600mA/μS	4.8~300mA/μS	19.2~1200mA/μS	NA	NA
Resolution	1.2mA/μS	4.8mA/μS	0.6mA/μS	2.4mA/μS	1.2mA/μS	4.8mA/μS	NA	NA
Min. Rise Time	20μS (Typical)							NA
<b>Current</b>								
Range	0 ~ 6A	0 ~ 24A	0 ~ 3A	0 ~ 12A	0 ~ 6A	0 ~ 24A	NA	NA
Resolution	0.1mA	0.4mA	0.05mA	0.2mA	0.1mA	0.4mA	NA	NA
Accuracy	± 0.1% OF (SETTING + RANGE)							
<b>Measurement</b>								
<b>Voltage Read Back</b>								
Range	30V / 150V / 300V		60V / 300V / 500V		60V / 300V / 500V		60V / 300V / 500V	
Resolution	0.5mV / 2.5mV / 5mV		1mV / 5mV / 10mV		1mV / 5mV / 10mV		1mV / 5mV / 10mV	
Accuracy	± 0.025% OF (READING + RANGE)							
<b>Current Read Back</b>								
Range	6A	24A	3A	12A	6A	24A	1.5A	6A
Resolution	0.1mA	0.4mA	0.05mA	0.2mA	0.1mA	0.4mA	0.025mA	0.1mA
Accuracy	± 0.1% OF (READING + RANGE)							
<b>Power Read Back</b>								
Range	300W		300W		300W		150W	
Accuracy	± 0.1% OF (READING + RANGE)							
<b>General</b>								
Imonitor	2.4A/V		1.2A/V		2.4A/V		0.6A/V	
Short Signal Output	12V/100 mAmax							
<b>Dimming Control</b>								
Level Range	0 ~ 12V							
Resolution	0.048V							
Accuracy	1% of (SETTING + RANGE)							
Frequency Range	DC ~ 1KHz							
Resolution	10Hz							
Duty Range	0.01 ~ 0.99 (1%~99%)							
Resolution	0.01							
Temperature Coefficient	100ppm/°C (typical)							
Power	Supply from mainframe							
Operating Temperature*2	0 ~ 40°C							
Safety & EMC	CE							

Input AC Power : 115V/230 Vac ±10% , 50/60Hz  
Cooling : Advanced Fan Cooled

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

## Order Information

### LED DC Electronic Load Simulator

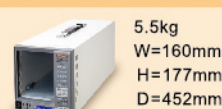
- ▶ 3341G 300V, 24A, 300W
- ▶ 3342G 500V, 12A, 300W
- ▶ 3343G 500V, 24A, 300W
- ▶ 33401G 500V, 6A, 150Wx2



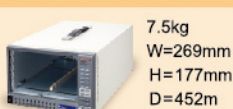
### LED mode DC Electronic Load Mainframe :

Optional Interface : ① GPIB Card ② RS232 Card ③ USB Card ④ LAN Card

#### 3302F [single channel mainframe]



#### 3305F [two channels mainframe]



#### 3300F [four channels mainframe]



Option :

Fixture for short

