



# 3330F Series

## Dual DC Electronic Load

### FEATURES

- 5 digital V / A / W Meter.
- Isolated two loads unit within one module.
- Large LCD Display \ setting values can be adjusted by rotary knob or push button.
- 2 sets V. A. W. values can be displayed simultaneously.
- OCP \ OPP test function.
- Must be configured in 3302G (Single Slot Mainframe), 3305G (Two Slot Mainframe) or 3300G (Four Slot Mainframe) and the mainframe with 150 sets Store / Recall memory.
- Power ON status value can be set.
- Flexible CC. CR, CV, CP, Dynamic and Short operation modes.
- SHORT time setting and SHORT\_VH, SHORT\_VL setting function.
- Protections against V, I, W, and °C.
- Voltage meter display the polarity positive ( " + " ) or negative ( " - " ) is selectable.
- SYNC. Load ON function.

**GW INSTEK**  
Simply Reliable

# 3330F Series Dual DC Electronic Load

**3330F** 80 V, 60 A, 250 W & 80 V, 6 A, 50 W

**3332F** 80 V, 24 A, 120 W \*2

**3336F** 80 V, 3 A, 40 W \*2

**3337F** 80 V, 30 A, 150 W\*2



## Features

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- Isolated two loads unit within one module.
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- SHORT time setting and SHORT\_VH, SHORT\_VL setting function.
- Protections against V, I, W, and °C.
- Voltage meter display the polarity positive ( " + " ) or negative ( " - " ) is selectable.
- SYNC. Load ON function.
- Optional Interface : GPIB \ RS232 \ USB \ LAN

## Descriptions

- 3330F Series Dual DC Electronic Load is a two load unit in one module. Each 3330F Series module has its own control and display panel, CC/CR/CV/CP/ Dynamic modes, plug in 3300G with 150 sets Store/Recall memory which provides load set-up more efficiently , also can be remote controlled via RS232 \ Ethernet \ USB and GPIB interface.
- SHORT time setting and SHORT\_VH, SHORT\_VL setting function , also can measure Short Voltage and Current.
- Dynamic can be simulated under CC, CP mode. The current Rise/Fall slew rate can be adjusted individually.
- The additional OCP \ OPP test function will be more efficiency and accuracy on OCP, OPP testing.
- 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 features 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

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

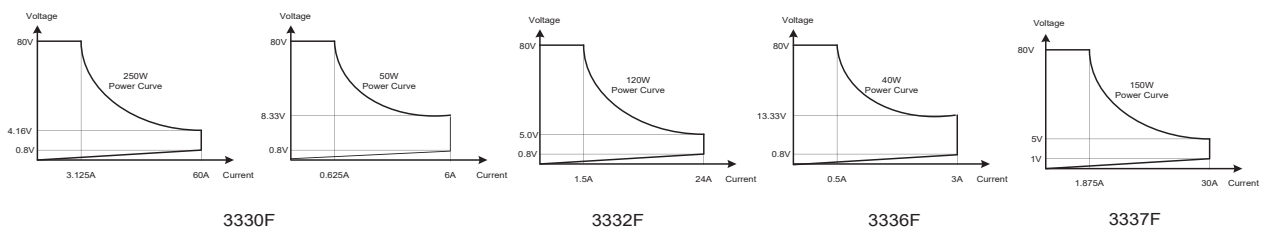
# SPECIFICATIONS

Model	3330F		3332F		3336F		3337F	
Power	250W		50W		120Wx2		40Wx2	
Current	0~60A		0~6A		0~24A		0~30A	
Voltage	0~80V		0~80V		0~80V		0~80V	
Min. Operating Voltage	0.8V @ 60A		0.8V @ 6A		0.8V @ 24A		0.4V @ 3A	
Constant Current Mode								
Range <sup>*1</sup>	0~6A/60A		0~0.6A/6A		0~2.4A/24A		0~0.3A/3A	
Resolution	0.1mA/1mA		0.01mA/0.1mA		0.04mA/0.4mA		0.005mA/0.05mA	
Accuracy	± 0.1% (Setting + Range)		± 0.1% (Setting + Range)		± 0.1% (Setting + Range)		± 0.1% (Setting + Range)	
Constant Resistance Mode								
Range	0.01335~1.335~80.1KΩ		0.1335~13.35~801KΩ		0.0333~3.33~199.8KΩ		0.267~26.7~1602KΩ	
Resolution	22.25μΩ/12.484μS		222.5μΩ/1.2484μS		55.55μΩ/5μS		445μΩ/0.6242μS	
Accuracy	0.2% OF (Setting + Range)		0.2% OF (Setting + Range)		0.2% OF (Setting + Range)		0.2% OF (Setting + Range)	
Constant Voltage Mode								
Range	6V/80V		6V/80V		6V/80V		6V/80V	
Resolution	0.135mV/1.35mV		0.135mV/1.35mV		0.135mV/1.35mV		0.135mV/1.35mV	
Accuracy	± 0.05% (Setting + Range)		± 0.05% (Setting + Range)		± 0.05% (Setting + Range)		± 0.05% (Setting + Range)	
Constant Power Mode								
Range	25W(I <sub>max</sub> =6A)/250W		5W(I <sub>max</sub> =0.6A)/50W		12W(I <sub>max</sub> =2.4A)/120W		4W(I <sub>max</sub> =0.3A)/40W	
Resolution	0.417mW/4.17mW		0.084mW/0.84mW		0.2mW/2mW		0.067mW/0.67mW	
Accuracy	± 0.5% (Setting + Range)		± 0.5% (Setting + Range)		± 0.5% (Setting + Range)		± 0.5% (Setting + Range)	
Dynamic Mode -CC								
Timing								
Thigh & Tlow	0.050~9.999 / 99.99 / 999.9 / 9999mS		0.050~9.999 / 99.99 / 999.9 / 9999mS		0.050~9.999 / 99.99 / 999.9 / 9999mS		0.050~9.999 / 99.99 / 999.9 / 9999mS	
Resolution	0.001 / 0.01 / 0.1 / 1mS		0.001 / 0.01 / 0.1 / 1mS		0.001 / 0.01 / 0.1 / 1mS		0.001 / 0.01 / 0.1 / 1mS	
Accuracy	1uS/10uS/100uS/1mS + 50ppm		1uS/10uS/100uS/1mS + 50ppm		1uS/10uS/100uS/1mS + 50ppm		1uS/10uS/100uS/1mS + 50ppm	
Slew rate	4mA~250mA/uS		4mA~250mA/uS		16mA~1000mA/uS		16mA~1000mA/uS	
Resolution	1mA/10mA		0.1mA/1mA		0.4mA/4mA		0.05mA/0.5mA	
Accuracy					(5% of setting) ± 10 uS			
Min. Rise Time	24uS(typical)		24uS(typical)		24uS(typical)		24uS(typical)	
Current								
Range	6/60A		0.6A/6A		2.4/24A		0.3/3A	
Resolution	0.1mA/1mA		0.01mA/0.1mA		0.04mA/0.4mA		0.005mA/0.05mA	
Accuracy	± 0.1% (Setting + Range)		± 0.1% (Setting + Range)		± 0.1% (Setting + Range)		± 0.1% (Setting + Range)	
Measurement								
Voltage Read Back								
Range (5 Digital)	0~6V/81V		0~6V/81V		0~6V/81V		0~6V/81V	
Resolution	0.1mV/1.35mV		0.1mV/1.35mV		0.1mV/1.35mV		0.1mV/1.35mV	
Accuracy	± 0.025% (Reading + Range)		± 0.025% (Reading + Range)		± 0.025% (Reading + Range)		± 0.025% (Reading + Range)	
Current Read Back								
Range (5 Digital)	0~6A/60A		0~0.6A/6A		0~2.4A/24A		0~0.3A/3A	
Resolution	0.1mA/1mA		0.01mA/0.1mA		0.04mA/0.4mA		0.005mA/0.05mA	
Accuracy	± 0.1% (Reading + Range)		± 0.1% (Reading + Range)		± 0.1% (Reading + Range)		± 0.1% (Reading + Range)	
Power Read Back								
Range (5 Digital)	0~250W		0~50W		0~120W		0~40W	
Accuracy	± 0.125% (Reading + Range)		± 0.125% (Reading + Range)		± 0.125% (Reading + Range)		± 0.125% (Reading + Range)	
Program mode(Mainframe)								
Sequence No.					F1~9/16 Steps			
T1/T2 (Dwell)					0.1S~9.9S/Repeat 9999			
GO/NG Check					Voltage/Current/Power			
Protections								
Over Power	105% of Rated Power		105% of Rated Power		105% of Rated Power		105% of Rated Power	
Over Current	105% of Rated Current		105% of Rated Current		105% of Rated Current		105% of Rated Current	
Over Voltage	105% of Rated Voltage		105% of Rated Voltage		105% of Rated Voltage		105% of Rated Voltage	
Over Temp.	~90°C		~90°C		~90°C		~90°C	
Reverse polarity	No		No		No		No	
Interface(Mainframe)								
RS-232	Optional		Optional		Optional		Optional	
GPIO	Optional		Optional		Optional		Optional	
USB	Optional		Optional		Optional		Optional	
Ethernet	Optional		Optional		Optional		Optional	
Remote Controller	Optional		Optional		Optional		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					0.1mV/1.35mV			
Temperature Coefficient	100ppm/°C(typical)		100ppm/°C(typical)		100ppm/°C(typical)		100ppm/°C(typical)	
Power	Supply from Mainframe		Supply from Mainframe		Supply from Mainframe		Supply from Mainframe	
Operating Temperature <sup>*3</sup>	0~40°C		0~40°C		0~40°C		0~40°C	
Dimension(HxWxD)	143 x 108 x 405 mm/5.6x4.3x15.9 inch		143 x 108 x 405 mm/5.6x4.3x15.9 inch		143 x 108 x 405 mm/5.6x4.3x15.9 inch		143 x 108 x 405 mm/5.6x4.3x15.9 inch	
Weight	3.5 kg / 7.7 lbs		3.5 kg / 7.7 lbs		3.5 kg / 7.7 lbs		3.5 kg / 7.7 lbs	
Safety & EMC	CE		CE		CE		CE	
Dimension(HxWxD)	143 x 108 x 405 mm/5.6x4.3x15.9 inch		143 x 108 x 405 mm/5.6x4.3x15.9 inch		143 x 108 x 405 mm/5.6x4.3x15.9 inch		143 x 108 x 405 mm/5.6x4.3x15.9 inch	
Safety & EMC	CE		CE		CE		CE	

Note <sup>\*1</sup> : The range is automatically or forcing to range II only in CC mode

Note <sup>\*2</sup> : Power F.S. = Vrange F.S. x Irange F.S.

Note <sup>\*3</sup> : Operating temperature range is 0~40°C, All specifications apply for 25°C±5°C



3330F

3332F

3336F

3337F

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