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

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- OCP、OPP test function.
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- 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.
- 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

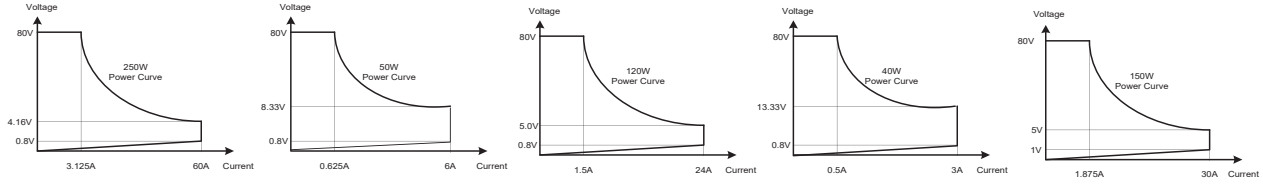
SPECIFICATIONS

Model	3330F		3332F		3336F		3337F	
Power	250W	50W	120Wx2		40Wx2		150Wx2	
Current	0~60A	0~6A	0~24A	0~24A	0~3A	0~3A	0~30A	0~30A
Voltage	0~80V	0~80V	0~80V	0~80V	0~80V	0~80V	0~80V	0~80V
Min. Operating Voltage	0.8V @ 60A	0.8V @ 6A	0.8V @ 24A	0.8V @ 24A	0.4V @ 3A	0.4V @ 3A	1V @ 30A	1V @ 30A
Constant Current Mode								
Range *1	0~6A/60A	0~0.6A/6A	0~2.4A/24A	0~2.4A/24A	0~0.3A/3A	0~0.3A/3A	0~3A/30A	0~3A/30A
Resolution	0.1mA/1mA	0.01mA/0.1mA	0.04mA/0.4mA		0.005mA/0.05mA		0.05mA/0.5mA	
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	0.0333~3.33~199.8KΩ	0.267~26.7~1602KΩ	0.267~26.7~1602KΩ	0.0443~2.66~159.6KΩ	0.0443~2.66~159.6KΩ
Resolution	22.25μΩ/12.484μS	222.5μΩ/1.2484μS	55.55μΩ/5μS		445μΩ/0.6242μS		44.33μΩ/6.265μS	
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	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(Imax.=6A)/250W	5W(Imax.=0.6A)/50W	12W(Imax.=2.4A)/120W	12W(Imax.=2.4A)/120W	4W(Imax.=0.3A)/40W	4W(Imax.=0.3A)/40W	15W(Imax.=3A)/150W	15W(Imax.=3A)/150W
Resolution	0.417mW/4.17mW	0.084mW/0.84mW	0.2mW/2mW	0.2mW/2mW	0.067mW/0.67mW	0.067mW/0.67mW	0.067mW/0.67mW	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	0.4mA~25mA/uS	1.6mA~100mA/uS	1.6mA~100mA/uS	0.2mA~12.5mA/uS	0.2mA~12.5mA/uS	2mA~125mA/uS	2mA~125mA/uS
	40mA~2500mA/uS	4mA~250mA/uS	16mA~1000mA/uS	16mA~1000mA/uS	2mA~125mA/uS	2mA~125mA/uS	20mA~1250mA/uS	20mA~1250mA/uS
Resolution	1mA/10mA	0.1mA/1mA	0.4mA/4mA		0.05mA/0.5mA		0.5mA/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	2.4/24A	0.3/3A	0.3A/3A	3/30A	3A/30A
Resolution	0.1mA/1mA	0.01mA/0.1mA	0.04mA/0.4mA		0.005mA/0.05mA		0.05mA/0.5mA	
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	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	0~2.4A/24A	0~0.3A/3A	0~0.3A/3A	0~3A/3A	0~3A/3A
Resolution	0.1mA/1mA	0.01mA/0.1mA	0.04mA/0.4mA		0.005mA/0.05mA		0.05mA/0.5mA	
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	0~120W	0~40W	0~40W	0~150W	0~150W
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℃		~90℃		~90℃		~90℃	
Reverse polarity	No		No		No		No	
Interface(Mainframe)								
RS-232	Optional		Optional		Optional		Optional	
GPIB	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/℃(typical)		100ppm/℃(typical)		100ppm/℃(typical)		100ppm/℃(typical)	
Power	Supply from Mainframe		Supply from Mainframe		Supply from Mainframe		Supply from Mainframe	
Operating Temperature *3	0~40℃		0~40℃		0~40℃		0~40℃	
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 *1 : The range is automatically or forcing to range II only in CC mode

Note *2 : Power F.S. = Vrange F.S. x Irange F.S.

Note *3 : Operating temperature range is 0~40℃, All specifications apply for 25℃±5℃



3330F 3332F 3336F 3337F

All specifications are subject to change without notice.

Order Information

3330F	Dual DC Electronic Load	80 V / 60 A / 250 W & 80 V / 6 A / 50 W
3332F	Dual DC Electronic Load	80 V / 24 A / 120 W *2
3332F-05	Dual DC Electronic Load	80V / 24A / 120W *2_CV Control 2.49 K/49.9 K
3332F-08	Dual DC Electronic Load	CC/CR mode only 80V / 24A / 150W *2
3336F	Dual DC Electronic Load	80 V / 3 A / 40 W *2
3337F	Dual DC Electronic Load	80 V / 30 A / 150 W*2

3.7kg
W=108mm
H=143mm
D=412mm

3302F（Single Slot Mainframe）

5.5kg
W=160mm
H=177mm
D=452mm

3305F（Two Slot Mainframe）

7.5kg
W=269mm
H=177mm
D=452mm

3300F（Four Slot Mainframe）

9.3kg
W=440mm
H=177mm
D=445mm

3300F-29 (3300F PCP)(GPIB)
Four Slot Mainframe FOR 332F-05

GPIB+RS232 interface

RS232 interface

GPIB interface

USB interface

LAN interface

OPTIONAL ACCESSORIES

GPIB+RS232 interface
RS232 interface
GPIB interface
USB interface
LAN interface

9933 Remote Controller
NTC Optional function：10 KΩ Simulator resistance
（100 Ω to 500 KΩ）
NTC Optional function：100 KΩ Simulator resistance
（1 KΩ to 5 MΩ）

FPIB cable length 1 m
FPIB cable length 2 m
USB TYPE A to TYPE B cable length 1.8 m

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

Specifications subject to change without notice. 3330F_BH1_E_202601

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