

3330F Series

Dual DC Electronic Load



DUAL DC ELECTRONIC LOAD



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3330F 250W&50W

3332F 120W&120W

3336F 40W&40W

3337F 150W&150W



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.
- 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.
- 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 3300F 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.Operation Voltage	0.8V @ 60A	0.8V @ 6A	0.8V @ 24A	0.8V @ 24A	0.3V @ 3A	0.3V @ 3A	1V @ 30A	1V @ 30A
CC 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	0.1 / 1mA	0.01 / 0.1mA	0.04 / 0.4mA		0.005mA / 0.05mA		0.05mA / 0.5mA	
Accuracy	0.1% + 0.1% F.S.		0.1% + 0.1% F.S.		0.1% + 0.1% F.S.		0.1% + 0.1% F.S.	
CR 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		0.0443~2.66~159.6KΩ	
Resolution	16bits							
Accuracy	0.2% OF (Setting + Range)							
CV MODE								
Range	6V / 80V							
Resolution	0.135mV / 1.35mV							
Accuracy	0.05% + 0.05% F.S.							
CP MODE								
Range	25W / 250W	5W / 50W	12W / 120W		4W / 40W		15W / 150W	
Resolution	0.417mW/4.17mW	0.084mW/0.84mW	0.2mW / 2mW		0.067mW / 0.67mW		0.25mW / 2.5mW	
Accuracy	0.5% + 0.5% F.S.							
DYNAMIC MODE -CC								
Timing								
Thigh & Tlow	0.050 ~ 9.999 / 99.99 / 999.9 / 9999mS							
Resolution	0.001 / 0.01 / 0.1 / 1mS							
Accuracy	1μS / 10μS / 100μS / 1mS + 50ppm							
Slew rate	4mA~250mA/μS 40mA~2500mA/μS	0.4mA~25mA/μS 4mA~250mA/μS	1.6mA ~ 100mA/μS 16mA ~ 1000mA/μS		0.2mA ~ 12.5mA/μS 2mA ~ 125mA/μS		2mA ~ 125mA/μS 20mA ~ 1250mA/μS	
Resolution	8 bits							
Accuracy	(5% of setting) ± 10 μS							
Min. Rise Time	24μS (typical)							
Current								
Range	6 / 60A	0.6A / 6A	2.4 / 24A		0.3 / 3A		3 / 30A	
Resolution	0.1 / 1mA	0.01 / 0.1mA	0.04 / 0.4mA		0.005mA / 0.05mA		0.05mA / 0.5mA	
Accuracy	0.1% + 0.1% F.S.							
MEASUREMENT								
Voltage Read Back								
Range (5 Digital)	0 ~ 6V / 80V							
Resolution	0.1mV / 1mV							
Accuracy	0.025% + 0.025% F.S.							
Current Read Back								
Range (5 Digital)	0 ~ 6A / 60A	0 ~ 0.6A / 6A	0 ~ 2.4A / 24A		0 ~ 0.3A / 3A		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% + 0.1% F.S.							
Power Read Back								
Range (5 Digital)	0 ~ 250W	0 ~ 50W	0 ~ 120W		0 ~ 40W		0 ~ 150W	
Accuracy	0.125% + 0.125% F.S.							
PROTECTIONS								
Over Power	105% of Rated Power							
Over Current	105% of Rated Current							
Over Voltage	105% of Rated Voltage							
Over Temp.	Yes							
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	1.35mV							
Accuracy	0.025% + 0.025% F.S.							
GENERAL								
Short Circuit								
Current	60A	6A	24A		3A		30A	
Temperature Coefficient	100ppm / °C (typical)							
Power	Supply from Mainframe							
Operating Temperature ²	0 ~ 40 °C							
Dimension (HxWxD)	143 x 108 x 405 mm							
Weight	3.5 kg							
Safety & Emc	CE							

Input AC Power : 115/230 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

Dual DC Electronic Load

- ▶ **3330F** 250W, 60A, 80V & 50W, 6A, 80V
- ▶ **3332F** 120W, 24A, 80V & 120W, 24A, 80V
- ▶ **3336F** 40W, 3A, 80V & 40W, 3A, 80V
- ▶ **3337F** 150W, 30A, 80V & 150W, 30A, 80V



3.5kg
W=108mm
H=143mm
D=405mm

Dual DC Electronic Load Mainframe

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

3302F (single channel mainframe)



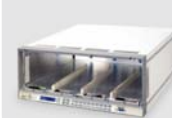
5.5kg
W=160mm
H=177mm
D=452mm

3305F (two channels mainframe)



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

3300F (four channels mainframe)



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