

**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	
Current	0 ~ 60A		0 ~ 6A		0 ~ 24A		0 ~ 24A	
Voltage	0 ~ 80V		0 ~ 80V		0 ~ 80V		0 ~ 80V	
Min.Operation Voltage	0.8V @ 60A		0.8V @ 6A		0.8V @ 24A		0.8V @ 24A	
Min.Operation Voltage	0.3V @ 3A		0.3V @ 3A		0.3V @ 3A		0.3V @ 3A	
Min.Operation Voltage	1V @ 30A		1V @ 30A		1V @ 30A		1V @ 30A	
Min.Operation Voltage	1V @ 30A		1V @ 30A		1V @ 30A		1V @ 30A	
CC MODE								
Range *1	0 ~ 6A / 60A		0 ~ 0.6A / 6A		0 ~ 2.4A / 24A		0 ~ 2.4A / 24A	
Resolution	0.1 / 1mA		0.01 / 0.1mA		0.04 / 0.4mA		0.005mA / 0.05mA	
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	
Resolution								
Accuracy								
CV MODE								
Range								
Resolution								
Accuracy								
CP MODE								
Range	25W / 250W		5W / 50W		12W / 120W		4W / 40W	
Resolution	0.417mW/4.17mW		0.084mW/0.84mW		0.2mW / 2mW		0.067mW / 0.67mW	
Accuracy								
DYNAMIC MODE -CC								
Timing								
Thigh & Tlow								
Resolution								
Accuracy								
Slew rate	4mA~250mA/μS		4mA~25mA/μS		1.6mA ~ 100mA/μS		0.2mA ~ 12.5mA/μS	
Resolution	40mA~2500mA/μS		4mA~250mA/μS		16mA ~ 1000mA/μS		2mA ~ 125mA/μS	
Accuracy								
Min. Rise Time								
Current								
Range	6 / 60A		0.6A / 6A		2.4 / 24A		0.3 / 3A	
Resolution	0.1 / 1mA		0.01 / 0.1mA		0.04 / 0.4mA		0.005mA / 0.05mA	
Accuracy								
MEASUREMENT								
Voltage Read Back								
Range (5 Digital)								
Resolution								
Accuracy								
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								
Power Read Back								
Range (5 Digital)	0 ~ 250W		0 ~ 50W		0 ~ 120W		0 ~ 40W	
Accuracy								
PROTECTIONS								
Over Power								
Over Current								
Over Voltage								
Over Temp.								
OTHERS								
Load On Voltage								
Range								
Resolution								
Accuracy								
Load Off Voltage								
Range								
Resolution								
Accuracy								
GENERAL								
Short Circuit								
Current	60A		6A		24A		3A	
Temperature Coefficient								
Power								
Operating Temperature <sup>2</sup>								
Dimension (HxWxD)								
Weight								
Safety & Emc								

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