

3330F Series Dual DC Electronic Load

3330F 250W&50W

3332F 120W&120W

3336F 40W&40W



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	
Power	250W	50W	120Wx2		40Wx2	
Current	0 ~ 60A	0 ~ 6A	0 ~ 24A	0 ~ 24A	0 ~ 3A	0 ~ 3A
Voltage	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
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
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.	
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	
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	
Resolution	0.417mW / 4.17mW	0.084mW / 0.84mW	0.2mW / 2mW		0.067mW / 0.67mW	
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	
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	
Resolution	0.1 / 1mA	0.01 / 0.1mA	0.04 / 0.4mA		0.005mA / 0.05mA	
Accuracy	0.1% + 0.1% F.S.					
MEASUREMENT						
Voltage Read Back						
Range (5 Digital)	0 ~ 6V / 81V					
Resolution	0.1mV / 1.35mV					
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	
Resolution	0.1mA / 1mA	0.01mA / 0.1mA	0.04mA / 0.4mA		0.005mA / 0.05mA	
Accuracy	0.1% + 0.1% F.S.					
Power Read Back						
Range (5 Digital)	0 ~ 250W	0 ~ 50W	0 ~ 120W		0 ~ 40W	
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	
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



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