

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, 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 *1	250W		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	0~0.3A/3A	0~0.3A/3A
	Resolution	0.1/1mA	0.01/0.1mA	0.04/0.4mA	0.005mA/0.05mA	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	1uS/10uS/100uS/1mS + 50ppm				
	Slew rate	4mA~250mA/uS 40mA~2500mA/uS	0.4mA~25mA/uS 4mA~250mA/uS	1.6mA~100mA/uS 16mA~1000mA/uS	0.2mA~12.5mA/uS 2mA~125mA/uS	
	Resolution	8 bits				
	Accuracy	(5% of setting) ± 10 uS				
	Min. Rise Time	24uS(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					

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 Module :



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

- ▶ 3330F 250W/60A/80V & 50W/6A/80V
- ▶ 3332F 120W/24A/80V & 120W/24A/80V
- ▶ 3336F 40W/3A/80V & 40W/3A/80V

Input AC Power : 115V/230 Vac ±10% , 50/60Hz
 Cooling : Advanced Fan Cooled

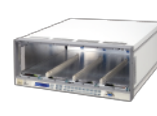
Dual DC Electronic Load Mainframe :



3302F [single channel mainframe]
 5.5kg
 W=160mm
 H=177mm



3305F [two channels mainframe]
 7.5kg
 W=269mm
 H=177mm



3300F [four channels mainframe]
 9.3kg
 W=440mm
 H=177mm

Optional Interface : ▶ GPIB Card ▶ RS232 Card ▶ USB Card ▶ LAN Card



Prodigit Electronics Co., Ltd.

8F., No.88, Baojhong Rd., Sindian City, Taipei County 231, Taiwan (R.O.C.)

TEL : 886-2-2918-2620

FAX : 886-2-2912-9870

http : //www.prodigit.com.tw

e-mail : sales@prodigit.com.tw

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