



3350F/3360F Series

High Power DC ELEC. LOAD

FEATURES

- 5 digit V / A / W Meter.
- High -speed measurement and communication transmission.
- Large LCD Display \ setting values can be adjusted by rotary knob or push button.
- Voltage \ Current and Watt value can be displayed simultaneously.
- OCP \ OPP test function.
- Power ON status can be set.
- CC, CR, CV, CP, Dynamic and Short operation mode.
- SHORT time setting.
- Protections against V,I,W, and °C.
- Voltage meter display the polarity positive (" + ") or negative (" - ") is selectable.
- Optional Interface : GPIB \ RS232 \ USB \ LAN.

3350F/3360F Series High Power DC ELEC. LOAD

3350F 60 V / 120 A / 1200 W

3351F 60 V / 120 A / 1800 W

3352F 60 V / 240 A / 1200 W

3353F 60 V / 240 A / 1800 W

3354F 60 V / 360 A / 1800 W

3361F 500 V / 40 A / 1200 W

3362F 500 V / 60 A / 1800 W

3367F 500 V / 12 A / 1800 W



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- Voltage, Current and Watt value can be displayed simultaneously.
- OCP \ OPP test function.
- Power ON status can be set.
- CC, CR, CV, CP, Dynamic and Short operation mode.
- SHORT time setting.
- Protections against V,I,W, and °C.
- Voltage meter display the polarity positive (“+”) or negative (“-”) is selectable.
- Optional Interface : GPIB, RS232, USB, LAN.
- New waveform generator plug in model 9923 adds user programmable battery discharge current waveform simulation to Prodigit DC Loads

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

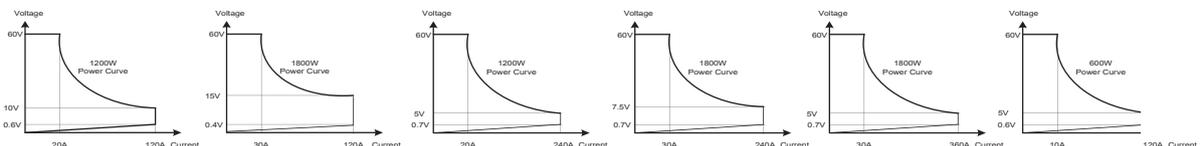
- Voltage / Current source
- SMPS transient response
- CV / Current limit testing and battery emulation
- Battery charger
- Battery discharge
- R&D Quality Control
- ATE system
- Production testing

SPECIFICATIONS

Model	3350F	3351F	3352F	3353F	3354F
Power	1200W	1800W	1200W	1800W	1800W
Current	0~120A	0~120A	0~240A	0~240A	0~360A
Voltage	0~60V	0~60V	0~60V	0~60V	0~60V
Min. Operating Voltage	0.6V @ 120A	0.4V @ 120A	0.7V @ 240A	0.7V @ 240A	0.7V @ 360A
Constant Current Mode					
Range ^{*1}	0~12A/120A	0~12A/120A	0~24A/240A	0~24A/240A	0~36A/360A
Resolution	0.2mA/2mA	0.2mA/2mA	0.4mA/4mA	0.4mA/4mA	0.6mA/6mA
Accuracy	± 0.1% OF (Setting + Range)				
Constant Resistance Mode					
Range	0.0083~0.5~30KΩ	0.0083~0.5~30KΩ	0.0041~0.25~15KΩ	0.0041~0.25~15KΩ	0.0027~0.167~10KΩ
Resolution	0.0083mΩ/0.033mS	0.0083mΩ/0.033mS	0.0041mΩ/0.066mS	0.0041mΩ/0.066mS	0.0027mΩ/0.1mS
Accuracy	± 0.2% OF (Setting + Range)				
Constant Voltage Mode					
Range	6V/60V				
Resolution	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV
Accuracy	± 0.05% OF (Setting + Range)				
Constant Power Mode					
Range	120W/1200W	180W/1800W	120W/1200W	180W/1800W	180W/1800W
Resolution	2mW/20mW	3mW/30mW	2mW/20mW	3mW/30mW	3mW/30mW
Accuracy	± 0.5% OF (Setting + Range)				
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	8mA~500mA/uS 80mA~5000mA/uS	8mA~500mA/uS 80mA~5000mA/uS	0.016A~1A/uS 0.16A~10A/uS	0.016A~1A/uS 0.16A~10A/uS	0.024A~1.5A/uS 0.24A~15A/uS
Resolution	2/20mA/uS	2/20mA/uS	0.004/0.04A/uS	0.004/0.04A/uS	0.006/0.06A/uS
Accuracy	(5% of setting) ± 10 uS				
Min. Rise Time	24uS(typical)				
Current					
Range ^{*2}	12A/120A	12A/120A	24A/240A	24A/240A	36A/360A
Resolution	0.2mA/2mA	0.2mA/2mA	0.4mA/4mA	0.4mA/4mA	0.6mA/6mA
Accuracy	± 0.1% OF (Setting + Range)				
Measurement					
Voltage Read Back					
Range (5 Digital)	0~6V/60V	0~6V/60V	0~6V/60V	0~6V/60V	0~6V/60V
Resolution	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV	0.1mV/1mV
Accuracy	± 0.025% OF (Reading + Range)				
Current Read Back					
Range (5 Digital)	0~12A/120A	0~12A/120A	0~24A/240A	0~24A/240A	0~36A/360A
Resolution	0.2mA/2mA	0.2mA/2mA	0.4mA/4mA	0.4mA/4mA	0.6mA/6mA
Accuracy	± 0.1% OF (Reading + Range)				
Power Read Back					
Range (5 Digital)	0~1200W	0~1800W	0~1200W	0~1800W	0~1800W
Resolution	0.01W				
Accuracy	± 0.125% OF (Reading + Range)				
Program mode(Mainframe)					
Sequence No.	F1~9/16 Steps				
T1/T2 (Dwell)	0.1S~9.9S/Repeat 9999				
Load Setting(External Programming)	0~10V for CC mode F.S.				
GO/NG Check	Voltage/Current/Power				
Protections					
Over Power	105% of Rated Power				
Over Current	105% of Rated Current				
Over Voltage	105% of Rated Voltage				
Over Temp.	Yes				
Interface(Mainframe)					
RS-232	Optional				
GPIB	Optional				
USB	Optional				
Ethernet	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	Same as Voltage Meter				
Accuracy	Same as Voltage Meter				
General					
Short Circuit					
Current	120A	120A	240A	240A	360A
Temperature Coefficient					
	100ppm/°C(typical)				
Power	100Wmax	100Wmax	100Wmax	100Wmax	100Wmax
Operating Temperature ^{*2}					
	0~40°C				
Dimension(HxWxD)					
	177 x 440 x 445 mm/6.97x17.3x17.5 inch				
Weight	19.4 kg / 42.77 lbs	23.6 Kg/52.03 lbs	19.4 kg / 42.77 lbs	23.6 Kg/52.03 lbs	23.6 Kg/52.03 lbs
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

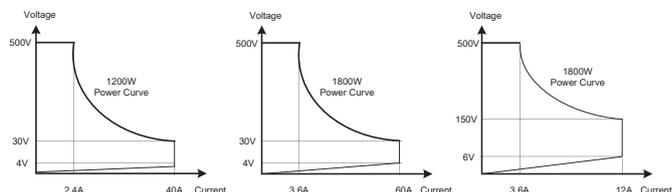


SPECIFICATIONS

Model	3381F	3382F	3387F
Power	1200W	1800W	1800W
Current	0~40A	0~60A	0~12A
Voltage	0~500V	0~500V	0~500V
Min. Operating Voltage	4V @ 40A	4V @ 60A	6V @ 12A
Constant Current Mode			
Range ¹	0~4.02A/40.2A	0~6A/60A	0~1.2A/12A
Resolution	0.067mA/0.67mA	0.1mA/1mA	0.02mA/0.2mA
Accuracy	± 0.1% OF (Setting + Range)		
Constant Resistance Mode			
Range	0.25~15~900KΩ	0.1666~10~600KΩ	0.8333~50~3000KΩ
Resolution	0.25mΩ/1.1111uS	0.1666mΩ/1.6666uS	0.8333mΩ/0.333uS
Accuracy	± 0.2% OF (Setting + Range)		
Constant Voltage Mode			
Range	60V/500V		
Resolution	1mV/10mV	1mV/10mV	1mV/10mV
Accuracy	± 0.05% OF (Setting + Range)		
Constant Power Mode			
Range	120W/1200W	180W/1800W	180W/1800W
Resolution	2mW/20mW	3mW/30mW	3mW/30mW
Accuracy	± 0.5% OF (Setting + Range)		
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	3.2mA~200mA/uS 32mA~2000mA/uS	4.8mA~300mA/uS 48mA~3000mA/uS	0.96mA~60mA/uS 9.6mA~600mA/uS
Resolution	0.8 / 8mA/uS	1.2 / 12mA/uS	0.24 / 2.4mA/uS
Accuracy	(5% of setting) ± 10 uS		
Min. Rise Time	20uS(typical)		
Current			
Range	4.02A/40.2A	6A/60A	1.2A/12A
Resolution	0.067mA/0.67mA	0.1mA/1mA	0.02mA/0.2mA
Accuracy	± 0.1% OF (Setting + Range)		
Measurement			
Voltage Read Back			
Range (5 Digital)	0~60V/600V		
Resolution	0.001V/0.01V		
Accuracy	± 0.025% OF (Reading + Range)		
Current Read Back			
Range (5 Digital)	0~4.02A/40.2A	0~6A/60A	0~1.2A/12A
Resolution	0.067mA/0.67mA	0.1mA/1mA	0.02mA/0.2mA
Accuracy	± 0.1% OF (Reading + Range)		
Power Read Back			
Range (5 Digital)	0~120W/1200W	0~180W/1800W	0~180W/1800W
Resolution	0.01W		
Accuracy	± 0.125% OF (Reading + Range)		
Program mode(Mainframe)			
Sequence No.	F1~9/16 Steps		
T1/T2 (Dwell)	0.1S~9.9S/Repeat 9999		
Load Setting(External Programming)	0~10V for CC mode F.S.		
GO/NG Check	Voltage/Current/Power		
Protections			
Over Power	105% of Rated Power		
Over Current	105% of Rated Current		
Over Voltage	105% of Rated Voltage		
Over Temp.	Yes		
Interface(Mainframe)			
RS-232	Optional		
GPiB	Optional		
USB	Optional		
Ethernet	Optional		
RS-232 + GPiB	Optional		
Others			
Load ON Voltage			
Range	0.4~100.0V		
Resolution	0.4V		
Accuracy	1% of Setting + 2.5V		
Load OFF Voltage			
Range	0~100V		
Resolution	Same as Voltage Meter		
Accuracy	Same as Voltage Meter		
General			
Short Circuit			
Current	40A	60A	12A
Temperature Coefficient			
	100 ppm/°C(typical)		
Power	100 Wmax	100 Wmax	100 Wmax
Operating Temperature ²	0~40°C		
Dimension(HxWxD)	177 x 440 x 445 mm/6.97x17.3x17.5 inch		
Weight	19.4 Kg/42.77 lbs	23.6 kg / 52.03 lbs	23.6 Kg/52.03 lbs
Safety & EMC	CE		

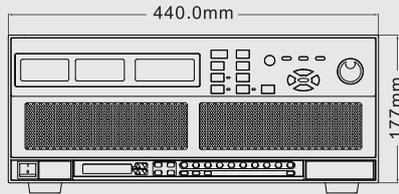
Note¹ : The range is automatically or forcing to range II only in CC mode

Note² : Operating temperature range is 0~40°C, All specifications apply for 25°C±5°C

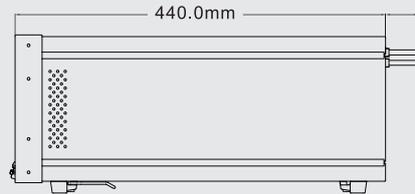


Order Information

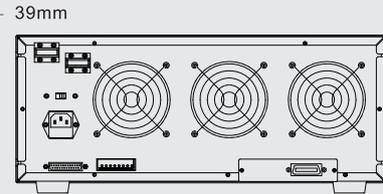
3350F	High Power DC ELEC. LOAD	60 V / 120 A / 1200 W
3351F	High Power DC ELEC. LOAD	60 V / 120 A / 1800 W
3352F	High Power DC ELEC. LOAD	60 V / 240 A / 1200 W
3353F	High Power DC ELEC. LOAD	60 V / 240 A / 1800 W
3354F	High Power DC ELEC. LOAD	60 V / 360 A / 1800 W
3361F	High Power DC ELEC. LOAD	500 V / 40 A / 1200 W
3362F	High Power DC ELEC. LOAD	500 V / 60 A / 1800 W
3367F	High Power DC ELEC. LOAD	500 V / 12 A / 1800 W



Front View



Side View



Back View

RS232 interface



GPIB interface



USB interface



LAN interface



OPTIONAL ACCESSORIES

RS232 interface	GPIB cable length 1 m
GPIB interface	GPIB cable length 2 m
USB interface	USB TYPE A to TYPE B cable length 1.8 m
LAN interface	

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

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