

3350F Series

High Power DC Electronic Load



HIGH POWER DC ELECTRONIC LOAD



3350F Series High Power DC Electronic Load

3350F 60V, 120A, 1200W

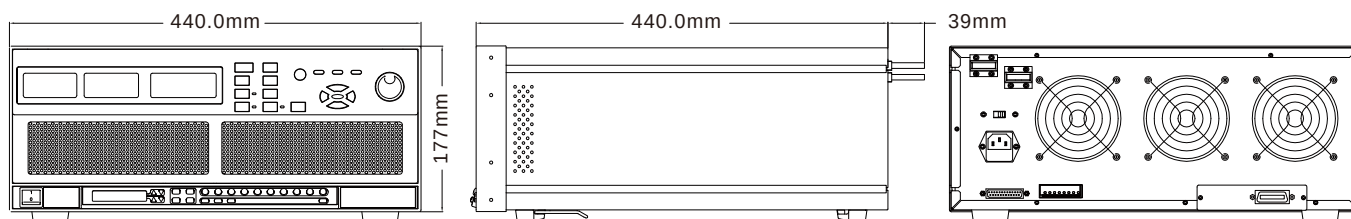
3351F 60V, 120A, 1800W

3352F 60V, 240A, 1200W

3353F 60V, 240A, 1800W

3354F 60V, 360A, 1800W

3356F 60V, 120A, 600W



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.

Descriptions

- 3350F 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 GPIB, RS232 \ USB and LAN 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 and there is an external signal input for a Arbitrary Waveform to simulate load current.
- Single key for 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 feature for each different application.
- 150 sets test parameter and status storage function, user can recall 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

IC-0004

Specifications

MODEL	3350F	3351F	3352F	3353F	3354F	3356F
Power	1200W	1800W	1200W	1800W	1800W	600W
Current	0 ~ 120A	0 ~ 120A	0 ~ 240A	0 ~ 240A	0 ~ 360A	0 ~ 120A
Voltage	0 ~ 60V	0 ~ 60V	0 ~ 60V	0 ~ 60V	0 ~ 60V	0 ~ 60V
Min.Operation Voltage	0.6V @ 120A	0.4V @ 120A	0.7V @ 240A	0.7V @ 240A	0.7V @ 360A	0.6V @ 120A
CC MODE						
Range *1	0 ~ 12A / 120A	0 ~ 12A / 120A	0 ~ 24A / 240A	0 ~ 24A / 240A	0 ~ 36A / 360A	0 ~ 12A / 120A
Resolution	0.2mA / 2mA	0.2mA / 2mA	0.4mA / 4mA	0.4mA / 4mA	0.6mA / 6mA	0.2mA / 2mA
Accuracy	0.1% + 0.1% F.S.					
CR 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	0.0083~0.5~30KΩ
Resolution	0.0083mΩ/0.033mS	0.0083mΩ/0.033mS	0.0041mΩ/0.066mS	0.0041mΩ/0.066mS	0.0027mΩ/0.1mS	0.0083mΩ/0.033mS
Accuracy	0.2% OF (Setting + Range)					
CV MODE						
Range	6V / 60V					
Resolution	0.1mV / 1mV	0.1mV / 1mV	0.1mV / 1mV	0.1mV / 1mV	0.1mV / 1mV	0.1mV / 1mV
Accuracy	0.05% + 0.05% F.S.					
CP MODE						
Range	120W / 1200W	180W / 1800W	120W / 1200W	180W / 1800W	180W / 1800W	60W / 600W
Resolution	2mW / 20mW	3mW / 30mW	2mW / 20mW	3mW / 30mW	3mW / 30mW	1mW / 10mW
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	8mA~500mA/μS 80mA~5000mA/μS	8mA~500mA/μS 80mA~5000mA/μS	16mA~1000mA/μS 160mA~10000mA/μS	16mA~1000mA/μS 160mA~10000mA/μS	24mA~1500mA/μS 240mA~15000mA/μS	8mA~500mA/μS 80mA~5000mA/μS
Resolution	8 bits					
Accuracy	(5% of setting) ± 10 μS					
Min. Rise Time	24μS (typical)					
Current						
Range	12 / 120A	12 / 120A	24 / 240A	24 / 240A	36 / 360A	12 / 120A
Resolution	0.2mA / 2mA	0.2mA / 2mA	0.4mA / 4mA	0.4mA / 4mA	0.6mA / 6mA	0.2mA / 2mA
Accuracy	0.1% + 0.1% F.S.					
MEASUREMENT						
Voltage Read Back						
Range (5 Digital)	0 ~ 6V / 60V	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	0.1mV / 1mV
Accuracy	0.025% + 0.025% F.S.					
Current Read Back						
Range (5 Digital)	0 ~ 12A / 120A	0 ~ 12A / 120A	0 ~ 24A / 240A	0 ~ 24A / 240A	0 ~ 36A / 360A	0 ~ 12A / 120A
Resolution	0.2mA / 2mA	0.2mA / 2mA	0.4mA / 4mA	0.4mA / 4mA	0.6mA / 6mA	0.2mA / 2mA
Accuracy	0.1% + 0.1% F.S.					
Power Read Back						
Range (5 Digital)	0 ~ 1200W	0 ~ 1800W	0 ~ 1200W	0 ~ 1800W	0 ~ 1800W	0 ~ 600W
Resolution	0.0001W					
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	Same as Voltage Meter					
Accuracy	Same as Voltage Meter					
GENERAL						
Short Circuit						
Current	120A	120A	240A	240A	360A	120A
Temperature Coefficient	100ppm / °C (typical)					
Power consumption	80Wmax	80Wmax	80Wmax	80Wmax	80Wmax	80Wmax
Operating Temperature *2	0 ~ 40°C					
Dimension (HxWxD)	177 x 440 x 445 mm					
Weight	19.4 Kg	23.6 Kg	19.4 Kg	23.6 Kg	23.6 Kg	15.2 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

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- ▶ **3356F** 60V , 120A , 600W

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