

Rear Panel of 3360F Series



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.
- 150 sets Store/Recall memory.
- Power Factor Correction (PFC) Test.
- 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

- 3360F 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.
- Maximum Voltage up to 500V that provides an ideal testing solution for Power Factor Correction testing.

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
- Power Factor Correction (PFC) Test

Specifications

| MODEL | 3360F | 3361F | 3362F | 3367F | 33611F | 33621F |
|--------------------------|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Power | 600W | 1200W | 1800W | 1800W | 2400W | 3600W |
| Current | 0 ~ 20A | 0 ~ 40A | 0 ~ 60A | 0 ~ 12A | 0 ~ 80A | 0 ~ 120A |
| Voltage | 0 ~ 500V | 0 ~ 500V | 0 ~ 500V | 0 ~ 500V | 0 ~ 500V | 0 ~ 500V |
| Min.Operation Voltage | 4V @ 20A | 4V @ 40A | 4V @ 60A | 6V @ 12A | 4V @ 80A | 4V @ 120A |
| CC MODE | | | | | | |
| Range *1 | 0 ~ 2A / 20A | 0 ~ 4A / 40A | 0 ~ 6A / 60A | 0 ~ 1.2A / 12A | 0 ~ 8A / 80A | 0 ~ 12A / 120A |
| Resolution | 0.033mA / 0.33mA | 0.066mA / 0.66mA | 0.1mA / 1mA | 0.02mA / 0.2mA | 0.133mA / 1.33mA | 0.2mA / 2mA |
| Accuracy | ± 0.1% OF (Setting + Range) | | | | | |
| CR MODE | | | | | | |
| Range | 0.5~30~1800KΩ | 0.25~15~900KΩ | 0.1666~10~600KΩ | 0.8333~50~3000KΩ | 0.125~7.5~450KΩ | 0.833~5~300KΩ |
| Resolution | 0.5mΩ/0.55μS | 0.25mΩ/1.1μS | 0.1666mΩ/0.032mS | 0.8333mΩ/0.333μS | 0.125mΩ/0.0022mS | 0.0833mΩ/0.00033mS |
| Accuracy | ± 0.2% OF (Setting + Range) | | | | | |
| CV MODE | | | | | | |
| Range | 60V / 500V | | | | | |
| Resolution | 1mV / 10mV | 1mV / 10mV | 1mV / 10mV | 1mV / 10mV | 1mV / 10mV | 1mV / 10mV |
| Accuracy | ± 0.05% OF (Setting + Range) | | | | | |
| CP MODE | | | | | | |
| Range | 60W / 600W | 120W / 1200W | 180W / 1800W | 180W / 1800W | 0 ~ 240W / 2400W | 0~360W / 3600W |
| Resolution | 1mW / 10mW | 2mW / 20mW | 3mW / 30mW | 3mW / 30mW | 4mW / 40mW | 6mW / 60mW |
| 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 | 1μS / 10μS / 100μS / 1mS + 50ppm | | | | | |
| Slew rate | 1.6mA~100mA/μS 16mA~1000mA/μS | 3.2mA~200mA/μS 32mA~2000mA/μS | 4.8mA~300mA/μS 48mA~3000mA/μS | 0.96mA~60mA/μS 9.6mA~600mA/μS | 6.4mA~400mA/μS 64mA~4000mA/μS | 9.6mA~600mA/μS 96mA~6000mA/μS |
| Resolution | 0.4 / 4 mA/μS | 0.8 / 8 mA/μS | 1.2 / 12 mA/μS | 0.24 / 2.4 mA/μS | 1.6 / 16 mA/μS | 2.4 / 24 mA/μS |
| Accuracy | (5% of setting) ± 10 μS | | | | | |
| Min. Rise Time | 20μS (typical) | | | | | |
| Current | | | | | | |
| Range | 2 / 20A | 4 / 40A | 6 / 60A | 1.2 / 12A | 8 / 80A | 12 / 120A |
| Resolution | 0.033mA/0.33mA | 0.066mA/0.66mA | 0.1mA/1mA | 0.02mA/0.2mA | 0.133mA/1.33mA | 0.2mA / 2mA |
| 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 ~ 2A / 20A | 0 ~ 4A / 40A | 0 ~ 6A / 60A | 0 ~ 1.2A / 12A | 0 ~ 8A / 80A | 0 ~ 12A / 120A |
| Resolution | 0.033mA/0.33mA | 0.066mA/0.66mA | 0.1mA/1mA | 0.02mA / 0.2mA | 0.133mA/1.33mA | 0.2mA / 2mA |
| Accuracy | ± 0.1% OF (Reading + Range) | | | | | |
| Power Read Back | | | | | | |
| Range (5 Digital) | 0 ~ 60W / 600W | 0 ~ 120W / 1200W | 0 ~ 180W / 1800W | 0 ~ 180W / 1800W | 0 ~ 240W / 2400W | 0 ~ 360W / 3600W |
| Resolution | 0.03W | | | | | |
| Accuracy | ± 0.125% OF (Reading + Range) | | | | | |
| 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 | 0.4 ~ 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 | 20A | 40A | 60A | 12A | 80A | 120A |
| Temperature Coefficient | 100ppm / °C (typical) | | | | | |
| Power consumption | 100Wmax | 100Wmax | 100Wmax | 100Wmax | 100Wmax | 200Wmax |
| Operating Temperature *2 | 0 ~ 40°C | | | | | |
| Dimension (HxWxD) | 177 x 440 x 445 mm | | | | 459x480x577mm | 459x480x577mm |
| Weight | 15.2 kg | 19.4 Kg | 23.6 kg | 23.6 Kg | 44 Kg | 44 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

Optional interface :

- ① GPIB Card
- ② RS232 Card
- ③ USB Card
- ④ LAN Card



3360F 500V · 20A · 600W

3361F 500V · 40A · 1200W

3362F 500V · 60A · 1800W

3367F 500V · 12A · 1800W

33611F 500V · 80A · 2400W

33621F 500V · 120A · 3600W

Specifications

| MODEL | 33671F | 33622F | 33672F | 33623F | 33624F | 33674F |
|--------------------------|--|------------------------------------|-------------------------------------|----------------------------------|--------------------------------|----------------------------------|
| Power | 3600W | 5400W | 5400W | 7200W | 9000W | 9000W |
| Current | 0 ~ 24A | 0 ~ 180A | 0 ~ 36A | 0 ~ 240A | 0 ~ 300A | 0 ~ 60A |
| Voltage | 0 ~ 500V | 0 ~ 500V | 0 ~ 500V | 0 ~ 500V | 0 ~ 500V | 0 ~ 500V |
| Min.Operation Voltage | 6V @ 24A | 4V @ 180A | 6V @ 36A | 4V @ 240A | 4V @ 300A | 6V @ 60A |
| CC MODE | | | | | | |
| Range *1 | 2.4A / 24A | 0 ~ 18A / 180A | 0 ~ 3.6A / 36A | 0 ~ 24A / 240A | 0 ~ 30A / 300A | 0 ~ 6A / 60A |
| Resolution | 0.02mA / 0.2mA | 0.3mA / 3mA | 0.06mA / 0.6mA | 0.4mA / 4mA | 0.5mA / 5mA | 0.1mA / 1mA |
| Accuracy | ± 0.1% OF (Setting + Range) | | | | | |
| CR MODE | | | | | | |
| Range | 0.416~25~1500KΩ | 0.0555~3.3333~200KΩ | 0.2775~16.66~100KΩ | 0.0416~2.5~150KΩ | 0.0333~2~120KΩ | 0.1666~10~600KΩ |
| Resolution | 0.416mΩ/0.00066mS | 0.0555mΩ/0.00033mS | 0.2775mΩ/0.01mS | 0.0416mΩ/0.0066mS | 0.0333mΩ/0.128mS | 0.1666mΩ/0.0016mS |
| Accuracy | ± 0.2% OF (Setting + Range) | | | | | |
| CV MODE | | | | | | |
| Range | 60V / 500V | | | | | |
| Resolution | 1mV / 10mV | 1mV / 10mV | 1mV / 10mV | 1mV / 10mV | 1mV / 10mV | 1mV / 10mV |
| Accuracy | ± 0.05% OF (Setting + Range) | | | | | |
| CP MODE | | | | | | |
| Range | 0~360W / 3600W | 540W / 5400W | 540W / 5400W | 720W / 7200W | 900W / 9000W | 900W / 9000W |
| Resolution | 6mW / 60mW | 9mW / 90mW | 9mW / 90mW | 12mW / 120mW | 15mW / 150mW | 15mW / 150mW |
| 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 | 1μS / 10μS / 100μS / 1mS + 50ppm | | | | | |
| Slew rate | 1.92mA~120mA/μS 19.2mA~1200mA/μS | 14.4mA~900mA/μS 144mA~9000mA/μS | 2.88mA~180mA/μS 28.8mA~1800mA/μS | 0.0192A~1.2A/μS 0.192A~12A/μS | 0.024A~1.5A/μS 0.24A~15A/μS | 4.8mA~300mA/μS 48mA~3000mA/μS |
| Resolution | 0.48 / 4.8mA/μS | 3.6 / 36mA/μS | 0.72 / 7.2mA/μS | 0.0048 / 0.048A/μS | 0.006 / 0.06A/μS | 1.2 / 12mA/μS |
| Accuracy | (5% of setting) ± 10μS | | | | | |
| Min. Rise Time | 20μS (typical) | | | | | |
| Current | | | | | | |
| Range | 2.4A / 24A | 18 / 180A | 3.6A / 36A | 24 / 240A | 30A / 300A | 6 / 60A |
| Resolution | 0.02mA / 0.2mA | 0.3mA / 3mA | 0.06mA / 0.6mA | 0.4mA / 4mA | 0.5mA / 5mA | 0.1mA / 1mA |
| MEASUREMENT | | | | | | |
| Voltage Read Back | | | | | | |
| Range (5 Digital) | 0 ~ 60V / 500V | | | | | |
| Resolution | 0.001V / 0.01V | | | | | |
| Accuracy | ± 0.025% OF (Reading + Range) | | | | | |
| Current Read Back | | | | | | |
| Range (5 Digital) | 2.4A / 24A | 0 ~ 18A / 180A | 0 ~ 3.6A / 36A | 0 ~ 24A / 240A | 0 ~ 30A / 300A | 0 ~ 6A / 60A |
| Resolution | 0.02mA / 0.2mA | 0.3mA / 3mA | 0.06mA / 0.6mA | 0.4mA / 4mA | 0.5mA / 5mA | 0.1mA / 1mA |
| Accuracy | ± 0.1% OF (Reading + Range) | | | | | |
| Power Read Back | | | | | | |
| Range (5 Digital) | 0 ~ 360W / 3600W | 0 ~ 540W / 5400W | 0 ~ 540W / 5400W | 0 ~ 720W / 7200W | 0 ~ 900W / 9000W | 0 ~ 900W / 9000W |
| Resolution | 0.06W | 0.09W | 0.09W | 0.12W | 0.15W | 0.15W |
| Accuracy | ± 0.125% OF (Reading + Range) | | | | | |
| 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 | 0.4 ~ 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 | 24A | 180A | 36A | 240A | 300A | 60A |
| Temperature Coefficient | 100ppm/°C (typical) | | | | | |
| Power consumption | 200Wmax | 300Wmax | 300Wmax | 400Wmax | 500Wmax | 500Wmax |
| Operating Temperature *2 | 0~40°C | | | | | |
| Dimension (HxWxD) | 459x480x577mm | 637x480x577mm | 637x480x577mm | 815x480x577mm | 1283x600x600mm | 1283x600x600mm |
| Weight | 44 Kg | 66 Kg | 66 Kg | 88 kg | 185Kg | 185 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

Optional interface :

- ① GPIB Card
- ② RS232 Card
- ③ USB Card
- ④ LAN Card



33671F 500V · 24A · 3600W



33622F 500V · 180A · 5400W



33672F 500V · 36A · 5400W



33623F 500V · 240A · 7200W



33624F 500V · 300A · 9000W



33674F 500V · 60A · 9000W

Specifications

| MODEL | 33625F | 33675F | 33626F | 33627F |
|--------------------------|--|---|--------------------------------------|----------------------------------|
| Power | 10800W | 10800W | 12600W | 14400W |
| Current | 0 ~360A | 0 ~72A | 0 ~ 420A | 0 ~ 500A |
| Voltage | 0 ~ 500V | 0 ~ 500V | 0 ~ 500V | 0 ~ 500V |
| Min.Operation Voltage | 4V @ 360A | 6V @ 72A | 4V @ 420A | 4V @ 500A |
| CC MODE | | | | |
| Range *1 | 0 ~ 36A / 360A | 0 ~ 7.2A / 72A | 0 ~ 42A / 420A | 0 ~ 50A / 500A |
| Resolution | 0.6mA / 6mA | 0.12mA / 1.2mA | 0.7mA / 7mA | 0.84mA / 8.4mA |
| Accuracy | ± 0.1% OF (Setting + Range) | | | |
| CR MODE | | | | |
| Range | 0.0277 ~ 1.6666 ~ 100KΩ | 0.8333 ~ 8.333 ~ 500KΩ | 0.0238 ~ 1.4285 ~ 85.71KΩ | 0.02 ~ 1.2 ~ 72KΩ |
| Resolution | 0.0277mΩ / 0.00033mS | 0.138mΩ / 0.0166mS | 0.0238mΩ / 0.00033mS | 0.02mΩ / 0.0138mS |
| Accuracy | ± 0.2% OF (Setting + Range) | | | |
| CV MODE | | | | |
| Range | 60V / 500V | | | |
| Resolution | 1mV / 10mV | 1mV / 10mV | 1mV / 10mV | 1mV / 10mV |
| Accuracy | ± 0.05% OF (Setting + Range) | | | |
| CP MODE | | | | |
| Range | 0 ~ 1080W / 10800W | 1080W / 10800W | 1260W / 12600W | 1440W / 14400W |
| Resolution | 18mW / 180mW | 18mW / 180mW | 21mW / 210mW | 24mW / 240mW |
| 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 | 1μS / 10μS / 100μS / 1mS + 50ppm | | | |
| Slew rate | 0.0288A ~ 1.8A/μS 0.288A ~ 18A/μS | 5.76mA ~ 360mA/μS 57.6mA ~ 3600mA/μS | 0.0336A ~ 2.1A/μS 0.336A ~ 21A/μS | 0.04A ~ 2.5A/μS 0.4A ~ 25A/μS |
| Resolution | 0.0072 / 0.072A/μS | 1.44 / 14.4mA/μS | 0.0084 / 0.084A/μS | 0.01 / 0.1A/μS |
| Accuracy | (5% of setting) ± 10μS | | | |
| Min. Rise Time | 20μS (typical) | | | |
| Current | | | | |
| Range | 36A / 360A | 7.2 / 72A | 42A / 420A | 50A / 500A |
| Resolution | 0.6mA / 6mA | 0.12mA / 1.2mA | 0.7mA / 7mA | 0.84mA / 8.4mA |
| MEASUREMENT | | | | |
| Voltage Read Back | | | | |
| Range (5 Digital) | 0 ~ 60V / 500V | | | |
| Resolution | 0.001V / 0.01V | | | |
| Accuracy | ± 0.025% OF (Reading + Range) | | | |
| Current Read Back | | | | |
| Range (5 Digital) | 0 ~ 36A / 360A | 0 ~ 7.2A / 72A | 0 ~ 42A / 420A | 0 ~ 50A / 500A |
| Resolution | 0.6mA / 6mA | 0.12mA / 1.2mA | 0.7mA / 7mA | 0.84mA / 8.4mA |
| Accuracy | ± 0.1% OF (Reading + Range) | | | |
| Power Read Back | | | | |
| Range (5 Digital) | 0 ~ 1080W / 10800W | 0 ~ 1080W / 10800W | 0 ~ 1260W / 12600W | 0 ~ 1440W / 14400W |
| Resolution | 0.18W | 0.18W | 0.21W | 0.24W |
| Accuracy | ± 0.125% OF (Reading + Range) | | | |
| 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 | 0.4 ~ 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 | 360A | 72A | 420A | 504A |
| Temperature Coefficient | 100ppm / °C (typical) | | | |
| Power consumption | 600Wmax | 600Wmax | 700Wmax | 800Wmax |
| Operating Temperature *2 | 0 ~ 40°C | | | |
| Dimension (HxWxD) | 1283 x 600 x 600 mm | 1283 x 600 x 600 mm | 1506 x 600 x 600 mm | 1728 x 600 x 600 mm |
| Weight | 208.6 kg | 208.6 Kg | 232.2 kg | 268.8 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

Optional interface :

- ① GPIB Card
- ② RS232 Card
- ③ USB Card
- ④ LAN Card



33625F 500V · 360A · 10800W



33675F 500V · 72A · 10800W



33626F 500V · 420A · 12600W



33627F 500V · 500A · 14400W