

High Speed DC Electronic Load

Model No.

6330A Series



High Speed DC Load Model 6330A Series

KEY FEATURES

- Improve operating speeds of load for auto test system integration
- Synchronous paralleling control mode, allow Synchronous load control under static and dynamic Loading mode up to 6000W
- Up to 8 channels in one mainframe, fit for testing Multiple output SMPS.
- GPIB/RS-232/USB Interface
- Max Power: 200W, 100W x 2(Dual), 30W&250W, 300W, 600W, 1200W
- Voltage Range: 0~80V / 0V~500V
- CC, CR, CV, CP operating modes
- Dynamic loading with speed up to 20kHz
- Programmable slew rate, up to 10A/μs
- Only need 1V to draw rated current
- Individual panel meters
- Real time power supplies load transient response simulation and output measurement
- 16-bit precision voltage and measurement with dual-range selection
- Remote sensing capability
- Short circuit test
- Self-test at power-on
- CE marking

Chroma Model 6330A series high speed DC electronic improves CPU clock, baud rate, parser and added synchronic parallel function for fast operation, which is ideal for auto test system integration to increase your manufacturing test throughput. Plugging the user selectable load modules into the system mainframe can also provide easy system configuration and future reconfiguration configure the system.

The 6330A family offers 8 types of modular loads with power ranging from 30 watts to 1200 watts, current from 0.5mA to 240A, and voltage measurement from 0.5mV to 500V. Each load is isolated and floating, programmable in dual current range and measuring voltage range, and capable of synchronizing with other modules for control operating. The load can be operated in constant current, constant voltage, and constant resistance.

With Synchronic parallel control capability, 6330A series loads allow users to parallel and synchronize more than one load together from an internal loading control signal. This feature provides synchronic dynamic loading test for multi-output power and high power test solution.

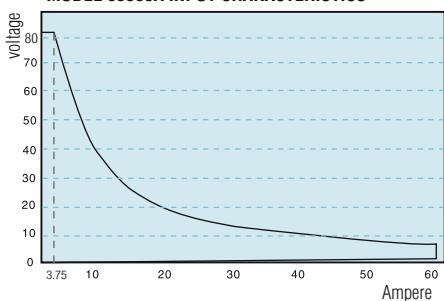
Real time measurement of voltage, current, is integrated into each 6330A load module using a 16-bit precision measurement circuit. The user can perform on line voltage measurement and adjustment, or simulate short circuit test using the simple keypad on the front panel.

The 6330A have self-diagnosis routine to maintain instrumental performance all the time. It is also protected against OP, OC, OT protection, and alarm indicating OV, reverse polarity to guarantee quality and reliability for even the most demanding engineering testing and ATE application.

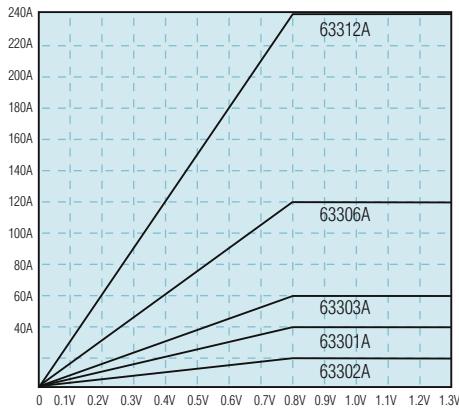
The FET technology accomplishes minimum input resistance and enables the load to sink high current even at very low voltage. For example, model 63303A is capable of sinking 60A at 1V output, and well-suited for testing the new 3V low voltage power supplies. Low voltage operation, down to zero volt, is possible at correspondingly reduced current level. (see below)

Chroma has created the industries first LED Load Simulator for simulating LED loading with our 63110A load model from our 6310A series Electronic Loads. By setting the LED power driver's output voltage, and current, the Electronic Load can simulate the LED's loading characteristics. The LED's forward voltage and operating resistance can also be set to further adjust the loading current and ripple current to better simulate LED characteristics. The 63110A design also has increased bandwidth to allow for PWM dimming testing.

MODEL 63303A INPUT CHARACTERISTICS



LOW VOLTAGE CHARACTERISTICS (TYPICAL) OF 63301A/63302A/63303A/63306A/63312A



Note: All specifications are measured at load input terminals. (Ambient Temperature of +25°C)

ORDERING INFORMATION

- 6332A:** Mainframe for 2 Load Modules
- 6334A:** Mainframe for 4 Load Modules
- 63301A:** Load Module 40A/80V/200W
- 63302A:** Load Module 20A/80V/100Wx2 channels
- 63303A:** Load Module 60A/80V/300W
- 63305A:** Load Module 10A/500V/300W
- 63306A:** Load Module 120A/80V/600W
- 63307A:** Load Module 5A&40A/80V/30W&250W
- 63308A:** Load Module 20A/500V/600W
- 63312A:** Load Module 240A/80V/1200W
- 63310A:** Load Module 2A/500V/100Wx2 channels
- 63323A:** Load Module 60A/80V/350W
- A631000:** GPIB Interface for Model 6334A/6332A Mainframe
- A631003:** USB Interface for Model 6334A/6332A Mainframe
- A631001:** Remote Controller
- A800042:** Test Fixture
- A631005:** Softpanel for 6310A/6330A series
- A632004:** Sync. Link Box for 6330A/63200 Series



6330A Series High Speed DC Electronic Load Family

SPECIFICATIONS

| 63310A (100Wx2) | |
|--------------------------|--|
| Power | 100W |
| Current | 0~0.6A |
| Voltage* | 0~500V |
| Min. Operating Voltage | 6V@2A |
| LED MODE | |
| Range | Operation Voltage: 0~100V/0~500V Rd Coefficient : 0.001~1 |
| Resolution | VL: 4mV VH: 20mV |
| CONSTANT RESISTANCE MODE | |
| Range | CRL: 3Ω~1kΩ (100W/100V) CRH: 10Ω~10kΩ (100W/500V) |
| Resolution | CRL: 20μmho CRH: 2μmho |
| Accuracy | 1kΩ : 0.001mho+0.2% 10kΩ : 0.0001mho+0.1% |
| CONSTANT VOLTAGE MODE | |
| Range | 0~500V |
| Resolution | 20mV |
| Accuracy | 0.05% ± 0.1% F.S. |
| CONSTANT CURRENT MODE | |
| Range | 0~0.6A |
| Resolution | 12μA |
| Accuracy | 0.1%~0.2% F.S. |
| MEASUREMENT SECTION | |
| VOLTAGE READ BACK | |
| Range | 0~100V |
| Resolution | 2mV |
| Accuracy | 0.025%~0.025% F.S. |
| CURRENT READ BACK | |
| Range | 0~0.6A |
| Resolution | 12μA |
| Accuracy | 0.05%~0.05% F.S. |

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Model No. 6330A Series

| SPECIFICATIONS-1 | | | | | | | | | | | | | |
|--|---|----------------------|---|----------------------|---|----------------------|---|--|--|--|--|--|--|
| Model | 63301A | | 63302A (100Wx2) | | 63303A | | 63305A | | | | | | |
| Power | 20W | 200W | 20W | 100W | 30W | 300W | 30W | | | | | | |
| Current | 0~4A | 0~40A | 0~2A | 0~20A | 0~6A | 0~60A | 0~1A | | | | | | |
| Voltage *3 | 0~80V | | 0~80V | | 0~80V | | 0~500V | | | | | | |
| Min. Operation Voltage (DC)*1 (Typical) | 0.4V@2A 0.8V@4A | 0.4V@20A 0.8V@40A | 0.4V@1A 0.8V@2A | 0.4V@10A 0.8V@20A | 0.4V@3A 0.8V@6A | 0.4V@30A 0.8V@60A | 1.0V@0.5A 2.0V@1A | | | | | | |
| Constant Current Mode | | | | | | | | | | | | | |
| Range | 0~4A | 0~40A | 0~2A | 0~20A | 0~6A | 0~60A | 0~1A | | | | | | |
| Resolution | 1mA | 10mA | 0.5mA | 5mA | 1.5mA | 15mA | 0.25mA | | | | | | |
| Accuracy | 0.1%+0.1%F.S. | 0.1%+0.2%F.S. | 0.1%+0.1%F.S. | 0.1%+0.2%F.S. | 0.1%+0.1%F.S. | 0.1%+0.2%F.S. | 0.1%+0.2%F.S. | | | | | | |
| Constant Resistance Mode | | | | | | | | | | | | | |
| Range | 0.0375 Ω~150 Ω (200W/16V) 1.875 Ω~7.5kΩ (200W/80V) | | 0.075 Ω~300 Ω (100W/16V) 3.75 Ω~15kΩ (100W/80V) | | 0.025 Ω~100 Ω (300W/16V) 1.25 Ω~5kΩ (300W/80V) | | 1.25 Ω~5Ω (300W/125V) 50Ω~200kΩ (300W/500V) | | | | | | |
| Resolution | 6.667m mho (200W/16V) 133μ mho (200W/80V) | | 3.333m mho (100W/16V) 66.667μ mho (100W/80V) | | 10m mho (300W/16V) 200μ mho (300W/80V) | | 200μ mho (300W/25V) 5μ mho (300W/500V) | | | | | | |
| Accuracy | 150 Ω : 0.1mho + 0.2% 7.5kΩ : 0.01mho + 0.1% | | 300 Ω : 0.1mho + 0.2% 15kΩ : 0.01mho + 0.1% | | 100 Ω : 0.1mho + 0.2% 5kΩ : 0.01mho + 0.1% | | 5kΩ : 20m mho + 0.2% 200kΩ : 5m mho + 0.1% | | | | | | |
| Constant Voltage Mode | | | | | | | | | | | | | |
| Range | 0~80V | | 0~80V | | 0~80V | | 0~500V | | | | | | |
| Resolution | 20mV | | 20mV | | 20mV | | 125mV | | | | | | |
| Accuracy | 0.05% ± 0.1%F.S. | | 0.05% ± 0.1%F.S. | | 0.05% ± 0.1%F.S. | | 0.05% ± 0.1%F.S. | | | | | | |
| Constant Power Mode | | | | | | | | | | | | | |
| Range | 0~20W | 0~200W | 0~20W | 0~100W | 0~30W | 0~300W | 0~30W | | | | | | |
| Resolution | 5mW | 50mW | 5mW | 25mW | 7.5mW | 75mW | 7.5mW | | | | | | |
| Accuracy | 0.5% ± 0.5%F.S. | | 0.5% ± 0.5%F.S. | | 0.5% ± 0.5%F.S. | | 0.5% ± 0.5%F.S. | | | | | | |
| Dynamic Mode | | | | | | | | | | | | | |
| Dynamic Mode | C.C. Mode | | C.C. Mode | | C.C. Mode | | C.C. Mode | | | | | | |
| T1 & T2 | 0.025ms ~ 50ms / Res: 5μs 0.1ms ~ 500ms / Res: 25μs 10ms ~ 50s / Res: 2.5ms | | 0.025ms ~ 50ms / Res: 5μs 0.1ms ~ 500ms / Res: 25μs 10ms ~ 50s / Res: 2.5ms | | 0.025ms ~ 50ms / Res: 5μs 0.1ms ~ 500ms / Res: 25μs 10ms ~ 50s / Res: 2.5ms | | 0.025ms ~ 50ms / Res: 5μs 0.1ms ~ 500ms / Res: 25μs 10ms ~ 50s / Res: 2.5ms | | | | | | |
| Accuracy | 1μs/1ms+100ppm | | 1μs/1ms+100ppm | | 1μs/1ms+100ppm | | 1μs/1ms+100ppm | | | | | | |
| Slew Rate | 0.64~160mA/μs | 6.4~1600mA/μs | 0.32~80mA/μs | 3.2~800mA/μs | 0.001~0.25A/μs | 0.01~2.5A/μs | 0.16~40mA/μs | | | | | | |
| Resolution | 0.64mA/μs | 6.4mA/μs | 0.32mA/μs | 3.2mA/μs | 0.001A/μs | 0.01A/μs | 0.16mA/μs | | | | | | |
| Min. Rise Time | 10μs (Typical) | | 10μs (Typical) | | 10μs (Typical) | | 24μs (Typical) | | | | | | |
| Current | 0~4A | 0~40A | 0~2A | 0~20A | 0~6A | 0~60A | 0~1A | | | | | | |
| Resolution | 1mA | 10mA | 0.5mA | 5mA | 1.5mA | 15mA | 0.25mA | | | | | | |
| Current Accuracy | 0.4%F.S. | | 0.4%F.S. | | 0.4%F.S. | | 0.4%F.S. | | | | | | |
| Measurement Section | | | | | | | | | | | | | |
| Voltage Read Back | | | | | | | | | | | | | |
| Range | 0~16V | 0~80V | 0~16V | 0~80V | 0~16V | 0~80V | 0~125V | | | | | | |
| Resolution | 0.25mV | 1.25mV | 0.25mV | 1.25mV | 0.25mV | 1.25mV | 2mV | | | | | | |
| Accuracy | 0.025% + 0.025%F.S. | | 0.025% + 0.025%F.S. | | 0.025% + 0.025%F.S. | | 0.025% + 0.025%F.S. | | | | | | |
| Current Read Back | | | | | | | | | | | | | |
| Range | 0~4A | 0~40A | 0~2A | 0~20A | 0~6A | 0~60A | 0~1A | | | | | | |
| Resolution | 0.0625mA | 0.625mA | 0.03125mA | 0.3125mA | 0.09375mA | 0.9375mA | 0.016mA | | | | | | |
| Accuracy | 1mA | 10mA | 0.5mA | 5mA | 1.5mA | 15mA | 0.25mA | | | | | | |
| Power Read Back*2 | | | | | | | | | | | | | |
| Range | 0~20W | 0~200W | 0~20W | 0~100W | 0~30W | 0~300W | 0~30W | | | | | | |
| Accuracy | 0.1% + 0.1%F.S. | | 0.1% + 0.1%F.S. | | 0.1% + 0.1%F.S. | | 0.1% + 0.1%F.S. | | | | | | |
| Protective Section | | | | | | | | | | | | | |
| Over Power Protection | ≈ 20.8W | ≈ 208W | ≈ 20.8W | ≈ 104W | ≈ 31.2W | ≈ 312W | ≈ 312W | | | | | | |
| Over Current Protection | ≈ 4.08A | ≈ 40.8A | ≈ 2.04A | ≈ 20.4A | ≈ 6.12A | ≈ 61.2A | ≈ 1.02A | | | | | | |
| Over Temperature Protection | ≈ 85°C | | ≈ 85°C | | ≈ 85°C | | ≈ 85°C | | | | | | |
| Over Voltage Alarm*3 | ≈ 81.6V | | ≈ 81.6V | | ≈ 81.6V | | ≈ 510V | | | | | | |
| General | | | | | | | | | | | | | |
| Short Circuit | | | | | | | | | | | | | |
| Current (CC) | - | ≈ 40A | - | ≈ 20A | - | ≈ 60A | - | | | | | | |
| Voltage (CV) | - | 0V | - | 0V | - | 0V | - | | | | | | |
| Resistance (CR) | - | ≈ 0.0375 Ω | - | ≈ 0.075 Ω | - | ≈ 0.025 Ω | - | | | | | | |
| Power (CP) | - | ≈ 200W | - | ≈ 100W | - | ≈ 300W | - | | | | | | |
| Input Resistance (Load Off) | | | | | | | | | | | | | |
| | 100kΩ (Typical) | | 100kΩ (Typical) | | 100kΩ (Typical) | | 100kΩ (Typical) | | | | | | |
| Temperature Coefficient | | | | | | | | | | | | | |
| | 100PPM/°C (Typical) | | 100PPM/°C (Typical) | | 100PPM/°C (Typical) | | 100PPM/°C (Typical) | | | | | | |
| Power | | | | | | | | | | | | | |
| | Supply from 6334A Mainframe | | Supply from 6334A Mainframe | | Supply from 6334A Mainframe | | Supply from 6334A Mainframe | | | | | | |
| Dimension (H x W x D) | | | | | | | | | | | | | |
| | 172x82x489.5mm / 6.8x3.2x19.3inch | | 172x82x489.5mm / 6.8x3.2x19.3inch | | 172x82x489.5mm / 6.8x3.2x19.3inch | | 172x82x489.5mm / 6.8x3.2x19.3inch | | | | | | |
| Weight | | | | | | | | | | | | | |
| | 4.2 kg / 9.3 lbs | | 4.2 kg / 9.3 lbs | | 4.2 kg / 9.3 lbs | | 4.2 kg / 9.3 lbs | | | | | | |
| Operating Range | | | | | | | | | | | | | |
| | 0~40°C | | 0~40°C | | 0~40°C | | 0~40°C | | | | | | |
| EMC & Safety | | | | | | | | | | | | | |
| | CE | | CE | | CE | | CE | | | | | | |



High Speed DC Electronic Load

Model No.

6330A Series

SPECIFICATIONS-2

| Model | 63306A | | 63307A (30W & 250W) | | | 63308A | | 63312A | | 63323A | | | | | | | |
|---|---|--|---|---|--|---|--|---|---------------|--|--------------|--|--|--|--|--|--|
| Power | 60W | 600W | 30W | 30W | 250W | 60W | 600W | 120W | 1200W | 350W | | | | | | | |
| Current | 0~12A | 0~120A | 0~5A | 0~4A | 0~40A | 0~2A | 0~20A | 0~24A | 0~240A | 0~6A | | | | | | | |
| Voltage*3 | 0~80V | | 0~80V | | | 0~500V | | 0~80V | | 0~80V | | | | | | | |
| Min. Operation Voltage (DC) *1 (Typical) | 0.4V@6A | 0.4V@60A | 0.4V@2.5A | 0.4V@2A | 0.4V@20A | 1.0V@1A | 1.0V@10A | 0.4V@12A | 0.4V@120A | 0.2V @ 3A | | | | | | | |
| | 0.8V@12A | 0.8V@120A | 0.8V@5A | 0.8V@4A | 0.8V@40A | 2V@2A | 2V@20A | 0.8V@24A | 0.8V@240A | 0.4V @ 6A | | | | | | | |
| Constant Current Mode | | | | | | | | | | | | | | | | | |
| Range | 0~12A | 0~120A | 0~5A | 0~4A | 0~40A | 0~2A | 0~20A | 0~24A | 0~240A | 0~6A | | | | | | | |
| Resolution | 3mA | 30mA | 1.25mA | 1mA | 10mA | 0.5mA | 5mA | 6mA | 60mA | 0.5mA | | | | | | | |
| Accuracy | 0.1%+0.1%F.S. | 0.1%+0.2%F.S. | 0.1%+0.1%F.S. | 0.1%+0.1%F.S. | 0.1%+0.2%F.S. | 0.1%+0.1%F.S. | 0.1%+0.2%F.S. | 0.1%+0.1%F.S. | 0.1%+0.2%F.S. | 0.1%+0.2%F.S. | | | | | | | |
| Constant Resistance Mode | | | | | | | | | | | | | | | | | |
| Range | 12.5mΩ~50Ω (600W/16V) 0.625Ω~2.5kΩ (600W/80V) | 0.3Ω~1.2kΩ (30W/16V) 15Ω~60kΩ (30W/80V) | 0.0375Ω~150Ω (250W/16V) 1.875Ω~7.5kΩ (250W/80V) | 0.625Ω~2.5kΩ (600W/125V) 25Ω~100kΩ (600W/500V) | 6.25mΩ~25Ω (1200W/16V) 0.3125Ω~1.25kΩ (1200W/80V) | 6.25mΩ~25Ω (1200W/16V) 0.3125Ω~1.25kΩ (1200W/80V) | 0.01Ω~100Ω (350W/16V)*4 1.25Ω~12.5kΩ (350W/80V) | | | | | | | | | | |
| Resolution | 20m mho (600W/16V) 400μ mho (600W/80V) | 833μ mho (30W/16V) 16.67μ mho (30W/80V) | 6.667μ mho (250W/16V) 133μ mho (250W/80V) | 400μ mho (600W/125V) 10μ mho (600W/500V) | 40m mho (1200W/16V) 80μ mho (1200W/80V) | 6.25m mho (350W/16V)*4 50μ mho (350W/80V) | | | | | | | | | | | |
| Accuracy | 50Ω : 0.4mho + 0.5% 2.5kΩ : 0.04mho + 0.2% | 1.2kΩ : 0.1mho + 0.2% 60kΩ : 0.01mho + 0.1% | 150Ω : 0.1mho + 0.2% 7.5kΩ : 0.01mho + 0.1% | 25kΩ : 50m mho + 0.2% 100kΩ : 5m mho + 0.1% | 25Ω : 0.8mho + 0.8% 1.25kΩ : 0.08mho + 0.2% | 100Ω : 0.1mho + 0.2%*4 12.5kΩ : 0.01mho + 0.1% | | | | | | | | | | | |
| Constant Voltage Mode | | | | | | | | | | | | | | | | | |
| Range | 0~80V | | 0~80V | | | 0~500V | | 0~80V | | 0~80V | | | | | | | |
| Resolution | 20mV | | 20mV | | | 125mV | | 20mV | | 5mV | | | | | | | |
| Accuracy | 0.05% ± 0.1%F.S. | | 0.05% ± 0.1%F.S. | | | 0.05% ± 0.1%F.S. | | 0.05% ± 0.1%F.S. | | 0.05% ± 0.1%F.S. | | | | | | | |
| Constant Power Mode | | | | | | | | | | | | | | | | | |
| Range | 0~60W | 0~600W | 0~30W | 0~30W | 0~250W | 0~60W | 0~600W | 0~120W | 0~1200W | 0~35W | | | | | | | |
| Resolution | 15mW | 150mW | 7.5mW | 7.5mW | 62.5mW | 15mW | 150mW | 30mW | 300mW | 2.5mW | | | | | | | |
| Accuracy | 0.5% ± 0.5%F.S. | | 0.5% ± 0.5%F.S. | | | 0.5% ± 0.5%F.S. | | 0.5% ± 0.5%F.S. | | 0.5%+0.5%F.S. | | | | | | | |
| Dynamic Mode | | | | | | | | | | | | | | | | | |
| Dynamic Mode | C.C. Mode | | C.C. Mode | | | C.C. Mode | | C.C. Mode | | C.C. MODE | | | | | | | |
| T1 & T2 | 0.025ms ~ 50ms / Res: 5μs 0.1ms ~ 500ms / Res: 25μs 10ms ~ 50s / Res: 2.5ms | | 0.025ms ~ 50ms / Res: 5μs 0.1ms ~ 500ms / Res: 25μs 10ms ~ 50s / Res: 2.5ms | | | 0.025ms ~ 50ms / Res: 5μs 0.1ms ~ 500ms / Res: 25μs 10ms ~ 50s / Res: 2.5ms | | 0.025ms ~ 50ms / Res: 5μs 0.1ms ~ 500ms / Res: 25μs 10ms ~ 50s / Res: 2.5ms | | .025ms~50ms/Res: 5μs 0.1ms~500ms / Res: 25μs 10ms~50s / Res: 2.5ms | | | | | | | |
| Accuracy | 1μs/1ms+100ppm | | 1μs/1ms+100ppm | | | 1μs/1ms+100ppm | | 1μs/1ms+100ppm | | 1μs / 1ms+100ppm | | | | | | | |
| Slew Rate | 0.002~0.5A/μs | 0.02~5A/μs | 0.8~200mA/μs | 0.64~160mA/μs | 64~1600mA/μs | 0.32~80mA/μs | 3.2~800mA/μs | 0.004~1A/μs | 0.04~10A/μs | 0.001~0.25A/μs | 0.01~2.5A/μs | | | | | | |
| Resolution | 0.002A/μs | 0.02A/μs | 0.8mA/μs | 0.64mA/μs | 64mA/μs | 0.32mA/μs | 3.2mA/μs | 0.004A/μs | 0.04A/μs | 0.001A/μs | 0.01A/μs | | | | | | |
| Min. Rise Time | 10μs (Typical) | | 10μs (Typical) | | | 24μs (Typical) | | 10μs (Typical) | | 10μs (Typical) | | | | | | | |
| Current | 0~12A | 0~120A | 0~5A | 0~4A | 0~40A | 0~2A | 0~20A | 0~24A | 0~240A | 0~6A | 0~60A | | | | | | |
| Resolution | 3mA | 30mA | 1.25mA | 1mA | 10mA | 0.5mA | 5mA | 6mA | 60mA | 0.5mA | 5mA | | | | | | |
| Current Accuracy | 0.4%F.S. | | 0.4%F.S. | | | 0.4%F.S. | | 0.4%F.S. | | 0.4% F.S. | | | | | | | |
| Measurement Section | | | | | | | | | | | | | | | | | |
| Voltage Read Back | | | | | | | | | | | | | | | | | |
| Range | 0~16V | 0~80V | 0~16V | 0~80V | 0~16V | 0~80V | 0~500V | 0~16V | 0~80V | 0~16V | 0~80V | | | | | | |
| Resolution | 0.25mV | 1.25mV | 0.25mV | 1.25mV | 0.25mV | 1.25mV | 2mV | 8mV | 0.25mV | 1.25mV | 0.25mV | | | | | | |
| Accuracy | 0.025% + 0.025%F.S. | | 0.025% + 0.025%F.S. | | | 0.025% + 0.025%F.S. | | 0.025% + 0.025%F.S. | | 0.025%+0.025% F.S. | | | | | | | |
| Current Read Back | | | | | | | | | | | | | | | | | |
| Range | 0~12A | 0~120A | 0~5A | 0~4A | 0~40A | 0~2A | 0~20A | 0~24A | 0~240A | 0~6A | 0~60A | | | | | | |
| Resolution | 0.1875mA | 1.875mA | 0.078125mA | 0.0625mA | 0.625mA | 0.03125mA | 0.3125mA | 0.375mA | 3.75mA | 0.09375mA | 0.9375mA | | | | | | |
| Accuracy | 0.05% + 0.05%F.S. | | 0.05% + 0.05%F.S. | | | 0.05% + 0.05%F.S. | | 0.075% + 0.075%F.S. | | 0.05%+0.05% F.S. | | | | | | | |
| Power Read Back*2 | | | | | | | | | | | | | | | | | |
| Range | 0~60W | 0~600W | 0~30W | 0~30W | 0~250W | 0~60W | 0~600W | 0~120W | 0~1200W | 0~35W | 0~350W | | | | | | |
| Accuracy | 0.1% + 0.1%F.S. | | 0.1% + 0.1%F.S. | | | 0.1% + 0.1%F.S. | | 0.1% + 0.1%F.S. | | 0.1%+0.1% F.S. | | | | | | | |
| Protective Section | | | | | | | | | | | | | | | | | |
| Over Power Protection | ≈ 62.4W | ≈ 624W | ≈ 31.2W | ≈ 31.2W | ≈ 260W | ≈ 62.4W | ≈ 624W | ≈ 124.8W | ≈ 1248W | ≈ 36W | ≈ 360W | | | | | | |
| Over Current Protection | ≈ 12.24A | ≈ 122.4A | ≈ 5.1A | ≈ 4.08A | ≈ 40.8A | ≈ 2.04A | ≈ 20.4A | ≈ 24.48A | ≈ 244.8A | ≈ 6.12A | ≈ 61.2A | | | | | | |
| Over Temperature Protection | ≈ 85°C | | ≈ 85°C | | | ≈ 85°C | | ≈ 85°C | | ≈ 85°C | | | | | | | |
| Over Voltage Alarm*3 | ≈ 81.6V | | ≈ 81.6V | | | ≈ 510V | | ≈ 81.6V | | ≈ 81.6V | | | | | | | |
| General | | | | | | | | | | | | | | | | | |
| Short Circuit | | | | | | | | | | | | | | | | | |
| Current (CC) | - | ≈ 120A | - | - | ≈ 40A | - | ≈ 20A | - | ≈ 240A | - | ≈ 60A | | | | | | |
| Voltage (CV) | - | 0V | - | - | 0V | - | 0V | - | 0V | - | 0V | | | | | | |
| Resistance (CR) | - | ≈ 0.0125Ω | - | - | ≈ 0.0375Ω | - | ≈ 0.625Ω | - | ≈ 0.00625Ω | - | ≈ 0.01Ω | | | | | | |
| Power (CP) | - | ≈ 600W | - | - | ≈ 250W | - | ≈ 600W | - | ≈ 1200W | - | ≈ 350W | | | | | | |
| Input Resistance (Load Off) | 100kΩ (Typical) | | 100kΩ (Typical) | | | 100kΩ (Typical) | | 100kΩ (Typical) | | 800kΩ | | | | | | | |
| Temperature Coefficient | 100PPM/°C (Typical) | | 100PPM/°C (Typical) | | | 100PPM/°C (Typical) | | 100PPM/°C (Typical) | | 100PPM/°C (Typical) | | | | | | | |
| Power | Supply from 6334A Mainframe | | Supply from 6334A Mainframe | | | Supply from 6334A Mainframe | | Supply from 6334A Mainframe | | Supply from 6334A Mainframe | | | | | | | |
| Dimension (HxWxD) | 172x164x489.5mm / 6.8x5.6x19.3inch | | 172x82x489.5mm / 6.8x3.2x19.3inch | | | 172x164x489.5mm / 6.8x5.6x19.3inch | | 172x329x495mm / 6.8x12.9x19.5inch | | 172x82x489.5mm / 6.8x3.2x19.3inch | | | | | | | |
| Weight | 7.3 kg / 16.1 lbs | | 4.5 kg / 9.9 lbs | | | 7.3 kg / 16.1 lbs | | 14 kg / 30.8 lbs | | 4.2kg / 9.3 lbs | | | | | | | |
| Operating Range | 0~40°C | | 0~40°C | | | 0~40°C | | 0~40°C | | 0~40°C | | | | | | | |
| EMC & Safety | CE | | CE | | | CE | | CE | | CE | | | | | | | |

NOTE*1 : Low voltage operation, under 0.8 volt, is possible at correspondingly reduced current level. Operating temperature range is 0°C to 40°C. All specifications apply for 25°C ± 5°C, except as noted

NOTE*2 : Power F.S.=Vrange F.S. x Irange F.S.

NOTE*3 : When the operating voltage exceeds the rated voltage for 1.02 times, a warning will occur and if it exceeds 1.1 times of the rated voltage, it would cause permanent damage to the device.

NOTE*4 : Please refer to user's manual for detail specifications.

| Mainframe Model | 6332A | 6334A |
|-------------------|-----------------------------------|-----------------------------------|
| Dimension (HxWxD) | 194x275x550mm / 7.6x10.8x21.7inch | 194x439x550mm / 7.6x17.3x21.7inch |
| Weight | 15 kg / 33.1 lbs | 21.5 kg / 47.4 lbs |