



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, 120V model 63303A is capable of sinking 60A at 1V 100V 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)

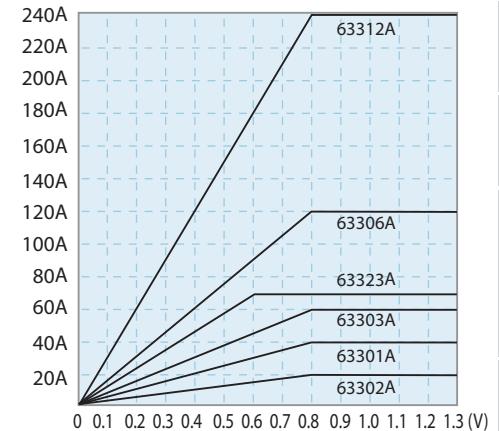
Chroma has created the industries first LED Load Simulator for simulating LED loading with our 63310A load model from our 6330A series Electronic Loads. By setting the LED power driver's output voltage, and current, the Electronic Load can simulate the LED's loading characteristics. The LED's forward voltage and operating resistance can also be set to further adjust the loading current and ripple current to better simulate LED characteristics. The 63310A design also has increased bandwidth to allow for PWM dimming testing.

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 12 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.

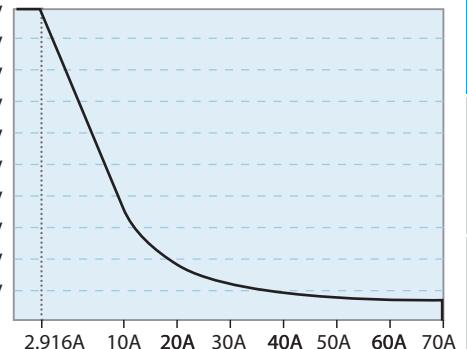
#### Low Voltage Characteristics (Typical)

Model 63301A/63302A/63303A/  
63306A/63312A/63323A

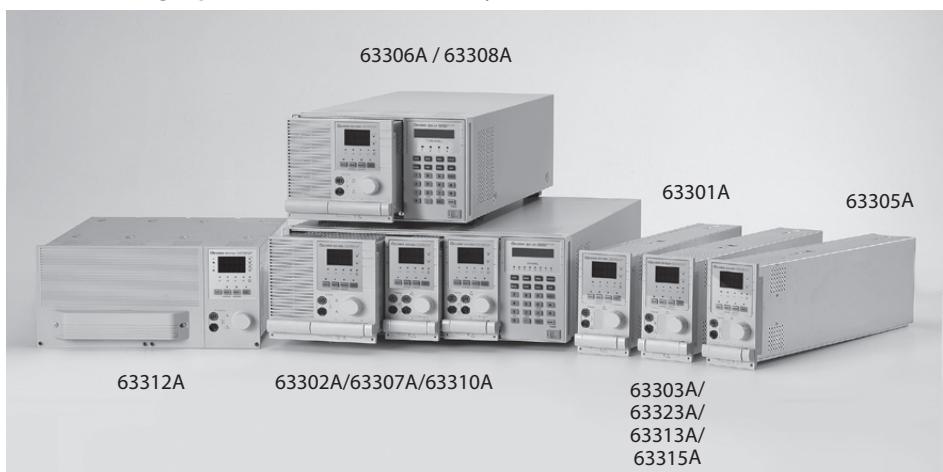


Note: All specifications are measured at load input terminals. (Ambient Temperature of 25°C)

#### Model 63323A Input Characteristics



#### 6330A Series High Speed DC Electronic Load Family



Video & Color
Flat Panel Display
LED/Lighting
Optical Devices
Photovoltaic Test & Automation
Automated Optical Inspection
Power Electronics
Battery Test & Automation
Passive Component
Electrical Safety
Semiconductor/IC
PXI Test & Measurement
General Purpose
Manufacturing System
Intelligent Automation
Turnkey Test & Automation

SPECIFICATIONS-1														
Model	63301A		63302A (100Wx2)		63303A									
Power	20W	200W	20W	100W	30W	300W								
Current	0~4A	0~40A	0~2A	0~20A	0~6A	0~60A								
Voltage *3	0~80V		0~80V		0~80V									
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								
Constant Current Mode														
Range	0~4A	0~40A	0~2A	0~20A	0~6A	0~60A								
Resolution	1mA	10mA	0.5mA	5mA	1.5mA	15mA								
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.								
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)									
Resolution*5	6.667mS (200W/16V) 133μS (200W/80V)		3.333mS (100W/16V) 66.667μS (100W/80V)		10mS (300W/16V) 200μS (300W/80V)									
Accuracy	150 Ω: 0.1S + 0.2% 7.5kΩ: 0.01S + 0.1%		300 Ω: 0.1S + 0.2% 15kΩ: 0.01S + 0.1%		100 Ω: 0.1S + 0.2% 5kΩ: 0.01S + 0.1%									
Constant Voltage Mode														
Range	0~80V		0~80V		0~80V									
Resolution	20mV		20mV		20mV									
Accuracy	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								
Resolution	5mW	50mW	5mW	25mW	7.5mW	75mW								
Accuracy	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								
T1 & T2		0.025ms ~ 50ms / Res: 5μs		0.025ms ~ 50ms / Res: 5μs		0.025ms ~ 50ms / Res: 5μs								
		0.1ms ~ 500ms / Res: 25μs		0.1ms ~ 500ms / Res: 25μs		0.1ms ~ 500ms / Res: 25μs								
		10ms ~ 50s / Res: 2.5ms		10ms ~ 50s / Res: 2.5ms		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								
Resolution	0.64mA/μs	6.4mA/μs	0.32mA/μs	3.2mA/μs	0.001A/μs	0.01A/μs								
Accuracy	10% ± 20μs		10% ± 20μs		10% ± 20μs									
Min. Rise Time	10μs (Typical)		10μs (Typical)		10μs (Typical)									
Current	0~4A	0~40A	0~2A	0~20A	0~6A	0~60A								
Resolution	1mA	10mA	0.5mA	5mA	1.5mA	15mA								
Accuracy	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								
Resolution	0.25mV	1.25mV	0.25mV	1.25mV	0.25mV	1.25mV								
Accuracy	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								
Resolution	0.0625mA	0.625mA	0.03125mA	0.3125mA	0.09375mA	0.9375mA								
Accuracy	0.05% + 0.05%F.S.		0.05% + 0.05%F.S.		0.05% + 0.05%F.S.									
Power Read Back*2														
Range	0~20W	0~200W	0~20W	0~100W	0~30W	0~300W								
Accuracy	0.1% + 0.1%F.S.		0.1% + 0.1%F.S.		0.1% + 0.1%F.S.									
Protective Section														
Over Power Protection	Yes		Yes		Yes									
Over Current Protection	Yes		Yes		Yes									
Over Temperature Protection	Yes		Yes		Yes									
Over Voltage Alarm*3	Yes		Yes		Yes									
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)									
Temperature Coefficient														
	100PPM/°C (Typical)		100PPM/°C (Typical)		100PPM/°C (Typical)									
Power														
	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									
Weight														
	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									
EMC & Safety														
	CE		CE		CE									

SPECIFICATIONS-2					Video & Color				
Model	63305A		63306A		Flat Panel Display				
Power	30W	300W	60W	600W	LED/Lighting				
Current	0~1A	0~10A	0~12A	0~120A	Optical Devices				
Voltage*3	0~500V		0~80V		Photovoltaic Test & Automation				
Min. Operation Voltage (DC) *1 (Typical)	1.0V@0.5A 2.0V@1A	1.0V@5A 2.0V@10A	0.4V@6A 0.8V@12A	0.4V@60A 0.8V@120A	Optical Inspection				
<b>Constant Current Mode</b>									
Range	0~1A	0~10A	0~12A	0~120A	Automated Electronics				
Resolution	0.25mA	2.5mA	3mA	30mA	Battery Test & Automation				
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.	Passive Component				
<b>Constant Resistance Mode</b>									
Range	1.25 Ω ~ 5kΩ (300W/125V) 50 Ω ~ 200kΩ (300W/500V)		12.5mΩ ~ 50 Ω (600W/16V) 0.625Ω ~ 2.5kΩ (600W/80V)		Electrical Safety				
Resolution*5	200μS (300W/125V) 5μS (300W/500V)		20mS (600W/16V) 400μS (600W/80V)		Semiconductor/IC				
Accuracy	5kΩ: 20mS+ 0.2% 200kΩ: 5mS+ 0.1%		50Ω: 0.4S + 0.5% 2.5kΩ: 0.04S + 0.2%		PXI Test & Measurement				
<b>Constant Voltage Mode</b>									
Range	0~500V		0~80V		General Purpose				
Resolution	125mV		20mV		Manufacturing System				
Accuracy	0.05% + 0.1%F.S.		0.05% + 0.1%F.S.		Intelligent Automation				
<b>Constant Power Mode</b>									
Range	0~30W	0~300W	0~60W	0~600W	Turnkey Test & Automation				
Resolution	7.5mW	75mW	15mW	150mW					
Accuracy	0.5% + 0.5%F.S.		0.5% + 0.5%F.S.						
<b>Dynamic Mode</b>									
Dynamic 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						
Accuracy	1μs/1ms+100ppm		1μs/1ms+100ppm						
Slew Rate	0.16~40mA/μs	1.6~400mA/μs	0.002~0.5A/μs	0.02~5A/μs					
Resolution	0.16mA/μs	1.6mA/μs	0.002A/μs	0.02A/μs					
Accuracy	10% ± 20μs		10% ± 20μs						
Min. Rise Time	24μs (Typical)		10μs (Typical)						
Current	0~1A	0~10A	0~12A	0~120A					
Resolution	0.25mA	2.5mA	3mA	30mA					
Accuracy	0.4%F.S.		0.4%F.S.						
<b>Measurement Section</b>									
<b>Voltage Read Back</b>									
Range	0~125V	0~500V	0~16V	0~80V					
Resolution	2mV	8mV	0.25mV	1.25mV					
Accuracy	0.025% + 0.025%F.S.		0.025% + 0.025%F.S.						
<b>Current Read Back</b>									
Range	0~1A	0~10A	0~12A	0~120A					
Resolution	0.016mA	0.16mA	0.1875mA	1.875mA					
Accuracy	0.05% + 0.05%F.S.		0.05% + 0.05%F.S.						
<b>Power Read Back*2</b>									
Range	0~30W	0~300W	0~60W	0~600W					
Accuracy	0.1% + 0.1%F.S.		0.1% + 0.1%F.S.						
<b>Protective Section</b>									
Over Power Protection	Yes		Yes						
Over Current Protection	Yes		Yes						
Over Temperature Protection	Yes		Yes						
Over Voltage Alarm*3	Yes		Yes						
<b>General</b>									
<b>Short Circuit</b>									
Current (CC)	-	≤ 10A	-	≤ 120A					
Voltage (CV)	-	0V	-	0V					
Resistance (CR)	-	≤ 1.25 Ω	-	≤ 0.0125 Ω					
Power (CP)	-	≤ 300W	-	≤ 600W					
<b>Input Resistance (Load Off)</b>									
	100kΩ (Typical)		100kΩ (Typical)						
<b>Temperature Coefficient</b>									
	100PPM/°C (Typical)		100PPM/°C (Typical)						
<b>Power</b>									
	Supply from 6334A Mainframe		Supply from 6334A Mainframe						
<b>Dimension (HxWxD)</b>									
	172x82x489.5mm / 6.8x3.2x19.3inch		172x164x489.5mm / 6.8x6.5x19.3inch						
<b>Weight</b>									
	4.2 kg / 9.3 lbs		7.3 kg / 16.1 lbs						
<b>Operating Range</b>									
	0~40°C		0~40°C						
<b>EMC &amp; Safety</b>									
	CE		CE						

SPECIFICATIONS-3										
Model	63307A (30W & 250W)			63308A						
Power	30W	30W	250W	60W	600W					
Current	0~5A	0~4A	0~40A	0~2A	0~20A					
Voltage*3	0~80V			0~500V						
Min. Operation Voltage (DC) *1 (Typical)	0.4V@2.5A 0.8V@5A	0.4V@2A 0.8V@4A	0.4V@20A 0.8V@40A	1.0V@1A 2V@2A	1.0V@10A 2V@20A					
Constant Current Mode										
Range	0~5A	0~4A	0~40A	0~2A	0~20A					
Resolution	1.25mA	1mA	10mA	0.5mA	5mA					
Accuracy	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.					
Constant Resistance Mode										
Range	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)							
Resolution*5	833μS (30W/16V) 16.67μS (30W/80V)	6.667μS (250W/16V) 133μS (250W/80V)	400μS (600W/125V) 10μS (600W/500V)							
Accuracy	1.2kΩ: 0.1S + 0.2% 60kΩ: 0.01S + 0.1%	150Ω: 0.1S + 0.2% 7.5kΩ: 0.01S + 0.1%	25kΩ: 50mS + 0.2% 100kΩ: 5mS + 0.1%							
Constant Voltage Mode										
Range	0~80V			0~500V						
Resolution	20mV			125mV						
Accuracy	0.05% + 0.1%F.S.			0.05% + 0.1%F.S.						
Constant Power Mode										
Range	0~30W	0~30W	0~250W	0~60W	0~600W					
Resolution	7.5mW	7.5mW	62.5mW	15mW	150mW					
Accuracy	0.5% + 0.5%F.S.			0.5% + 0.5%F.S.						
Dynamic Mode										
Dynamic 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						
Accuracy	1μs/1ms+100ppm			1μs/1ms+100ppm						
Slew Rate	0.8~200mA/μs	0.64~160mA/μs	64~1600mA/μs	0.32~80mA/μs	3.2~800mA/μs					
Resolution	0.8mA/μs	0.64mA/μs	64mA/μs	0.32mA/μs	3.2mA/μs					
Accuracy	10% ± 20μs			10% ± 20μs						
Min. Rise Time	10μs (Typical)			24μs (Typical)						
Current	0~5A	0~4A	0~40A	0~2A	0~20A					
Resolution	1.25mA	1mA	10mA	0.5mA	5mA					
Accuracy	0.4%F.S.			0.4%F.S.						
Measurement Section										
Voltage Read Back										
Range	0~16V	0~80V	0~16V	0~80V	0~500V					
Resolution	0.25mV	1.25mV	0.25mV	1.25mV	2mV					
Accuracy	0.025% + 0.025%F.S.			0.025% + 0.025%F.S.						
Current Read Back										
Range	0~5A	0~4A	0~40A	0~2A	0~20A					
Resolution	0.078125mA	0.0625mA	0.625mA	0.03125mA	0.3125mA					
Accuracy	0.05% + 0.05%F.S.			0.05% + 0.05%F.S.						
Power Read Back*2										
Range	0~30W	0~30W	0~250W	0~60W	0~600W					
Accuracy	0.1% + 0.1%F.S.			0.1% + 0.1%F.S.						
Protective Section										
Over Power Protection	Yes			Yes						
Over Current Protection	Yes			Yes						
Over Temperature Protection	Yes			Yes						
Over Voltage Alarm*3	Yes			Yes						
General										
Short Circuit										
Current (CC)	-	-	≥ 40A	-	≥ 20A					
Voltage (CV)	-	-	0V	-	0V					
Resistance (CR)	-	-	≥ 0.0375Ω	-	≥ 0.625Ω					
Power (CP)	-	-	≥ 250W	-	≥ 600W					
Input Resistance (Load Off)										
	100kΩ (Typical)									
Temperature Coefficient										
	100PPM/°C (Typical)									
Power										
	Supply from 6334A Mainframe									
Dimension (HxWxD)	172x82x489.5mm / 6.8x3.2x19.3inch			172x164x489.5mm / 6.8x6.5x19.3inch						
Weight	4.5 kg / 9.9 lbs			7.3 kg / 16.1 lbs						
Operating Range										
	0~40°C									
EMC & Safety										
	CE									

**SPECIFICATIONS-4**

Model	63312A		63323A					
Power	120W	1200W	350W					
Current	0~24A	0~240A	0~7A	0~70A				
Voltage*3	0~80V		0~120V					
Min. Operation Voltage (DC)*1 (Typical)	0.4V@12A 0.8V@24A	0.4V@120A 0.8V@240A	0.05V @ 3.5A 0.1V @ 7A	0.3V @ 35A 0.6V @ 70A				
<b>Constant Current Mode</b>								
Range	0~24A	0~240A	0~7A	0~70A				
Resolution	6mA	60mA	0.125mA	1.25mA				
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.				
<b>Constant Resistance Mode</b>								
Range	6.25mΩ ~25Ω (1200W/16V) 0.3125Ω ~1.25kΩ (1200W/80V)	0.015Ω ~150Ω (350W/24V)*4 2Ω ~2kΩ (350W/120V)						
Resolution*5	40mS (1200W/16V) 80μS (1200W/80V)	1.33mS (350W/24V)*4 10μS (350W/120V)						
Accuracy	25Ω : 0.8S+ 0.8% 1.25kΩ : 0.08S+ 0.2%	150Ω : 67mS + 0.1% 2kΩ : 5mS + 0.2%						
<b>Constant Voltage Mode</b>								
Range	0~80V		0~120V					
Resolution	20mV		2mV					
Accuracy	0.05% + 0.1%F.S.		0.05% + 0.1%F.S.					
<b>Constant Power Mode</b>								
Range	0~120W	0~1200W	0~35W	0~350W				
Resolution	30mW	300mW	2.5mW	25mW				
Accuracy	0.5% + 0.5%F.S.		0.5% + 0.5%F.S.					
<b>Dynamic Mode</b>								
Dynamic 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						
Accuracy	1μs / 1ms+100ppm		1μs / 1ms+100ppm					
Slew Rate	0.004~1A/μs	0.04~10A/μs	0.001~0.25A/μs	0.01~2.5A/μs				
Resolution	0.004A/μs	0.04A/μs	0.001A/μs	0.01A/μs				
Accuracy	10% ± 20μs		10% ± 20μs					
Min. Rise Time	10μs (Typical)		25μs (Typical) *6					
Current	0~24A	0~240A	0~7A	0~70A				
Resolution	6mA	60mA	0.125mA	1.25mA				
Current Accuracy	0.4%F.S.		0.1% F.S.					
<b>Measurement Section</b>								
<b>Voltage Read Back</b>								
Range	0~16V	0~80V	0~24V	0~120V				
Resolution	0.25mV	1.25mV	0.4mV	2mV				
Accuracy	0.025% + 0.025%F.S.		0.025%+0.015% F.S.					
<b>Current Read Back</b>								
Range	0~24A	0~240A	0~7A	0~70A				
Resolution	0.375mA	3.75mA	0.125mA	1.25mA				
Accuracy	0.075% + 0.075%F.S.		0.04%+0.04% F.S.					
<b>Power Read Back*2</b>								
Range	0~120W	0~1200W	0~35W	0~350W				
Accuracy	0.1% + 0.1%F.S.		0.1%+0.1% F.S.					
<b>Protective Section</b>								
Over Power Protection	Yes		Yes					
Over Current Protection	Yes		Yes					
Over Temperature Protection	Yes		Yes					
Over Voltage Alarm*3	Yes		Yes					
<b>General</b>								
<b>Short Circuit</b>								
Current (CC)	-	≥ 240A	-	≥ 70A				
Voltage (CV)	-	0V	-	0V				
Resistance (CR)	-	≥ 0.00625Ω	-	≥ 0.01Ω				
Power (CP)	-	≥ 1200W	-	≥ 350W				
<b>Input Resistance (Load Off)</b>	100kΩ (Typical)		800kΩ (Typical)					
<b>Temperature Coefficient</b>	100PPM/°C (Typical)		100PPM/°C (Typical)					
<b>Power</b>	Supply from 6334A Mainframe		Supply from 6334A Mainframe					
<b>Dimension (HxWxD)</b>	172x329x495mm / 6.8x12.9x19.5inch		172x82x489.5mm / 6.8x3.2x19.3inch					
<b>Weight</b>	14 kg / 30.8 lbs		4.2kg / 9.3 lbs					
<b>Operating Range</b>	0~40°C		0~40°C					
<b>EMC &amp; Safety</b>	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.

**NOTE\*5 :** S (siemens) is the SI unit of conductance, equal to one reciprocal ohm.

**NOTE\*6 :** The loading current should be 0.35A at least.

**ORDERING INFORMATION**

**6332A:** Mainframe for 2 Load Modules

**6334A:** Mainframe for 4 Load Modules

**63301A:** Load Module 80V/40A/200W

**63302A:** Load Module 80V/20A/100W x 2

**63303A:** Load Module 80V/60A/300W

**63305A:** Load Module 500V/10A/300W

**63306A:** Load Module 80V/120A/600W

**63307A:** Load Module 80V/5A & 40A/30W & 250W

**63308A:** Load Module 500V/20A/600W

**63312A:** Load Module 80V/240A/1200W

**63323A:** Load Module 120V/70A/350W

**A631000:** GPIB Interface

for Model 6334A/6332A Mainframe

**A631001:** Remote Controller

**A631003:** USB Interface

for Model 6334A/6332A Mainframe

**A631005:** Softpanel for 6310A/6330A series

**A631006:** Rack Mounting Kit

for Model 6332A Mainframe

**A631007:** Rack Mounting Kit

for Model 6334A Mainframe

**A632004:** Sync. Link Box for 6330A/63200 Series

**A800042:** Test Fixture

**LED Load Simulator for LED Driver Test**

**63310A:** Load Module 500V/2A/100W x 2

**63313A:** Load Module 300V/20A/300W

**63315A:** Load Module 600V/20A/300W

Video & Color	Flat Panel Display	LED/Lighting	Optical Devices	Photovoltaic Test & Automation	Automated Optical Inspection	Power Electronics	Battery Test & Automation	Passive Component	Electrical Safety	Semiconductor IC	PXI Test & Measurement	General Purpose	Intelligent Manufacturing System	Turnkey Test & Automation
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SPECIFICATIONS												
Model	63310A (100Wx2)		63313A		63315A							
Power	100W		300W		300W							
Current	0~0.6A	0~2A	0~5A	0~20A	0~5A	0~20A						
Voltage *1	0~500V		0~300V		0~600V							
Min. Operating Voltage	6V@2A		4V@20A		4V@20A							
Constant Current Mode												
Range	0~0.6A	0~2A	0~5A	0~20A	0~5A	0~20A						
Resolution	12µA	40µA	100µA	400µA	100µA	400µA						
Accuracy	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.						
Constant Resistance Mode												
Range	CRL : 3Ω~1kΩ (100W/100V) CRH : 10Ω~10kΩ (100W/500V)		CRL @ CH : 0.2Ω~200Ω (300W/60V) CRL @ CL : 0.8Ω~800Ω (300W/60V) CRH @ CL : 4Ω~4kΩ (300W/300V)		CRL @ CH : 0.2Ω~200Ω (300W/60V) CRL @ CL : 0.8Ω~800Ω (300W/60V) CRH @ CL : 8Ω~8kΩ (300W/600V)							
Resolution*2	CRL : 62.5µS CRH : 6.25µS		CRL @ CH : 100µS CRL @ CL : 25µS CRH @ CL : 5µS		CRL @ CH : 100µS CRL @ CL : 25µS CRH @ CL : 2.5µS							
Accuracy	1kΩ : 4mS+0.2% 10kΩ : 1mS+0.1%		0.2% (setting + range)		0.2% (setting + range)							
Constant Voltage Mode												
Range	0~500V		0~300V		0~600V							
Resolution	20mV		6mV		12mV							
Accuracy	0.05% + 0.1%F.S.		0.05% + 0.1%F.S.		0.05% + 0.1%F.S.							
LED Mode												
Range	Operating Voltage: 0~100V/0~500V Rd Coefficient : 0.001~1 Vf : 0~100V/0~500V Current : 0~2A Rd: 1Ω~1kΩ/10Ω~10kΩ		Operating Voltage : 0~60V/0~300V Rd Coefficient : 0.001~1 Vf : 0~60V/0~300V LEDL @ CH : 0~60V- 0~20A (Rd: 0.05 Ω~50Ω) LEDL @ CL : 0~60V- 0~5A (Rd: 0.8 Ω~800Ω) LEDH @ CL : 0~300V- 0~5A (Rd: 4Ω~4kΩ)		Operating Voltage : 0~60V/0~600V Rd Coefficient : 0.001~1 Vf : 0~60V/0~600V LEDL @ CH : 0~60V- 0~20A (Rd: 0.05 Ω~50Ω) LEDL @ CL : 0~60V- 0~5A (Rd: 0.8 Ω~800Ω) LEDH @ CL : 0~600V- 0~5A (Rd: 8Ω~8kΩ)							
Resolution *2	Vo : 4mV/20mV Io : 0.1mA Rd Coefficient : 0.001 Rd: 62.5µS/6.25µS Vf : 4mV/20mV		Vo : 1.2mV/6mV Io : 100µA/400µA Rd Coefficient : 0.001 Rd : 400µS / 25µS / 5µS Vf : 1.2mV/ 6mV		Vo : 1.2mV/12mV Io : 100µA/400µA Rd Coefficient : 0.001 Rd : 400µS/25µS/2.5µS Vf : 6mV/ 60mV							
Dynamic Mode												
Dynamic 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							
Accuracy	--		1µs/1ms+100ppm		1µs/1ms+100ppm							
Slew Rate	--		0.8~200mA/µs		0.8~200mA/µs							
Resolution	--		0.8mA/µs		0.8mA/µs							
Accuracy	--		10% ± 20µs		10% ± 20µs							
Min. Rise Time	--		25µs (Typical)		25µs (Typical)							
Current	--		0~5A		0~5A							
Resolution	--		100µA		100µA							
Accuracy	--		0.4%F.S.		0.4%F.S.							
Measurement Section												
Voltage Read Back												
Range	0~100V	0~500V	0~60V	0~300V	0~60V	0~600V						
Resolution	2mV	10mV	1.2mV	6mV	1.2mV	12mV						
Accuracy	0.025%+0.025% F.S.		0.025%+0.025% F.S.		0.025%+0.025% F.S.							
Current Read Back												
Range	0~0.6A	0~2A	0~5A	0~20A	0~5A	0~20A						
Resolution	12µA	40µA	100µA	400µA	100µA	400µA						
Accuracy	0.05%+0.05% F.S.		0.05%+0.05% F.S.		0.05%+0.05% F.S.							

**NOTE\*1** : If the operating voltage exceeds 1.1 times of the rated voltage, it would cause permanent damage to the device.

**NOTE\*2** : S (siemens) is the SI unit of conductance, equal to one reciprocal ohm.

Mainframe Model	6332A	6334A
Number of slots	2	4
Operating Temperature	0~40°C	0~40°C
Input Rating	1Ø 100/200Vac ± 10% V <sub>LN</sub> , 47~63Hz ; 1Ø 115/230Vac ± 10% V <sub>LN</sub> , 47~63Hz	1Ø 100/200Vac ± 10% V <sub>LN</sub> , 47~63Hz ; 1Ø 115/230Vac ± 10% V <sub>LN</sub> , 47~63Hz
Dimension (HxWxD)	194x275x550mm / 7.6x10.8x21.7inch	194x439x550mm / 7.6x17.3x21.7inch
Weight	15 kg / 33.1 lbs	21.5 kg / 47.4 lbs