



Programmable DC Electronic Load Model 63600 Series

KEY FEATURES

- Max. Power: 100W x 2(Dual), 300W & 400W
- Voltage Range : up to 80V
- 5 module mainframe Max. 2000W, load modules up to 400W/ea
- Up to 10 channels in one mainframe, fit for testing multiple output
- 0.4V @ 80A (Typical) low voltage operating characteristics
- Flexible CC, CR, CV and CP operation modes
- CZ mode for turn on capacitive load simulation
- Parallel mode for high current and power application up to 2kW
- Multi Channel synchronous control
- Auto frequency sweep up to 50kHz
- Real time power supply load transient response simulation and Vpk+/- measurement
- User programmable 100 sequential front panel input status for user-friendly operating
- Precision voltage and current measurement
- Precision high speed digitizing measurement/ data capture
- Voltage, Current and Pmax measurement for OCP/OLP testing
- Timing measurement for batteries







- Short circuit simulation
- Self-test at nower-on
- Full Protection : OC, OP, OT protection and OV alarm
- Ethernet, USB and GPIB interfaces

Chroma's 63600 Series DC Electronic Loads are designed for testing multi-output AC/DC power supplies, DC/DC converters. chargers, batteries, adapters, and power electronic components. They are excellent for research, development, production, and incoming inspection applications.

The 63600's state of the art design uses DSP technology to simulate non-linear loads using an unique CZ operation mode allowing realistic loading behavior.

The 63600 series can draw its rated current under very low voltage (0.4V typical). This unique feature guarantees the best loading performance for modern Point-of-Load conditions and fuel cells.

The 63600 series can simulate a wide range of dynamic loading applications, with programmable load levels, slew rates, duration, and conducting voltage. The 63600 also has a dynamic sweep function to meet the test requirements of ATX power supplies. The instrument allows up to 100 sets of system operating status which can be stored in the EEPROM and recalled instantly for automated testing application.

Real time measurement of voltage and current are integrated into each 63600 load module using a 16-bit measurement circuit with three current ranges. The user can perform online voltage measurements and adjustments or simulate short circuit test using the simple keypad on the front panel.

With the VFD display and rotary knob, the 63600 loads offer versatile front panel operation. Users are able to control the 63600 family remotely via Ethernet, USB, or GPIB interface.

Also included in the 63600 are self-diagnostic routines and full protections against OP, OC, OT and alarm indicating OV, reverse polarity. This ensures the quality and reliability of the 63600 and provides protection of units under test.



ORDERING INFORMATION

63600-1: 63600 Mainframe for Single Module 63600-2: 63600 Mainframe for 2 Modules 63600-5: 63600 Mainframe for 5 Modules 63610-80-20: DC Load Module, 100Wx2/20A/80V

63630-80-60 : DC Load Module, 300W/ 60A/ 80V 63640-80-80: DC Load Module, 400W/80A/80V

A600009: GPIB Cable (200cm) **A600010**: GPIB Cable (60cm) A636000 : GPIB Interface A636001: Ethernet Interface A636003: External Signal Board (Test Pin)

A636005: External Signal Board (BNC)

A632006: NI USB-6211 BUS-Powered Multifunction DAQ

SPECIFICATIONS										
Model		63610-80-20			63630-80-60			63640-80-80		
Configuration		100Wx2			300Wx1			400Wx1		
Voltage *1 *8		0~80V			0~80V			0~80V		
Current	0~0.2A	0~2A	0~20A	0~0.6A	0~6A	0~60A	0~0.8A	0~8A	0~80A	
Power *2	16W	30W	100W	30W	60W	300W	60W	60W	400W	
Static Mode										
Typical min. operating voltage (DC)	0.5V@0.2A	0.5V@2A	0.5V@20A	0.5V@0.6A	0.5V@6A	0.5V@60A	0.4V@0.8A	0.4V@8A	0.4V@80A	
Constant Current Mode										
Range	0~0.2A	0~2A	0~20A	0~0.6A	0~6A	0~60A	0~0.8A	0~8A	0~80A	
Resolution	0.01mA	0.1mA	1mA	0.01mA	0.1mA	1mA	0.01mA	0.1mA	1mA	
Accuracy		0.1%+0.1%F.S.		0.1%+0.1%F.S.			0.1%+0.1%F.S.			
Constant Resistance Mode										
Range	CRL : 0.04~80 Ω (100W/6V) CRM: 1.44~2.9k Ω (100W/16V) CRH : 5.76~12k Ω (100W/80V)		CRL : 0.015~30 Ω (300W/6V) CRM: 0.3~600 Ω (300W/16V) CRH : 1.5~3k Ω (300W80V)			CRL : 0.01~20 Ω (400W/6V) CRM: 0.36~720 Ω (400W/16V) CRH : 1.45~2.9kΩ (400W/80V)				
Resolution *9		0.3288m mho			0.9864m mho			1.322m mho		
Accuracy *3	0.1%+0.075 mho (6V) 0.1%+0.01 mho (16V) 0.1%+0.00375 mho (80V)			0.1%+0.2 mho (6V) 0.1%+0.03 mho (16V) 0.1%+0.01 mho (80V)			0.1%+0.275 mho (6V) 0.1%+0.036 mho (16V) 0.1%+0.01375 mho (80V)			
Constant Voltage Mode										
Range	6V/16V/80V			6V/16V/80V			6V/16V/80V			
Resolution	0.1mV/1mV/1mV			0.1mV/1mV			0.1mV/1mV			
Accuracy		0.05%+0.1%F.S.			0.05%+0.1%F.S.			0.05%+0.1%F.S.		
Constant Power Mode										
Range	2W	10W	100W	6W	30W	300W	8W	40W	400W	
Resolution *9	1mW/10mW/100mW		3.2mW/32mW/320mW			4mW/40mW/400mW				
Accuracy *4		0.3%+0.3%F.S.			0.3%+0.3%F.S.			0.3%+0.3%F.S.		
Dynamic Mode - CC										
Frequency	100Hz~50kHz/0.01Hz~1kHz			100Hz~50kHz/0.01Hz~1kHz			100Hz~50kHz/0.01Hz~1kHz			
Duty	1~99% (Min. Rise Time Dominated)		1~99% (Min. Rise Time Dominated)			1~99% (Min. Rise Time Dominated)				
Accuracy		1μs/1ms+100ppm			1μs/1ms+100ppm	,		1μs/1ms+100ppm		
Slew rate	0.04A/ms~ 0.02A/μs	0.4A/ms~ 0.2A/μs	4A/ms~ 2A/µs	0.12A/ms~ 0.06A/μs	1.2A/ms~ 0.6A/µs	12A/ms~ 6A/μs	0.16A/ms~ 0.08A/µs	1.6A/ms~ 0.8A/μs	16A/ms~ 8A/μs	
Resolution		9 bits		9 bits			9 bits			
Min.rise time	10 μs		10 µs			10 µs				
Current	_									
Range	0~0.2A	0~2A	0~20A	0~0.6A	0~6A	0~60A	0~0.8A	0~8A	0~80A	
Resolution	0.01mA	0.1mA	1mA	0.01mA	0.1mA	1mA	0.01mA	0.1mA	1mA	
Ext Wave Mode(20kHz) : C										
Range	0~0.2A	0~2A	0~20A	0~0.6A	0~6A	0~60A	0~0.8A	0~8A	0~80A	
Level	0~10V		0~10V			0~10V				
Accuracy	0.5%F.S.			0.5%F.S.			0.5%F.S.			

Programmable DC Electronic Load 63600 Series



Sequence No. 100/Program 100/Program 100/Program Dwell / SEQ 0.1ms ~ 30s (Resolution : 0.1ms) 0.1ms ~ 30s (Resolution : 0.1ms) 0.1ms ~ 30s (Resolution : 0.1ms) Load Setting Refer to Static mode specifications Refer to Static mode specifications Refer to Static mode specifications Spec Check Voltage/Current/Power Voltage/Current/Power Voltage/Current/Power Weasurement Voltage read back Range 6V/16V/80V 6V/16V/80V Resolution 0.1069mV 0.2849mV 1.3537mV 0.1069mV 0.2849mV 1.3537mV	Program mode										
Deep SEC		T T	100/Program		100/Program			100/Program			
Look Selling Refer to Splite mode specifications Refer to State mode specifications Voltage-Current/Proser Volt		0.1m		0.1me)							
Webspace Webs											
Major Majo											
Wildings		Voltage/Current/Power			Voltage/Current/Power			Voltage/Current/Power			
Register GVT6V889 GVT6V889 SVT6V889 SVT6V889 SVT6V889 SVT6V889 SVT6V889 SVT6V889 SVT6V889 SVT6V889 SVT6V899 SVT6V89 SVT6V8											
Residation	Voltage read back										
Accurage								6V/16V/80V			
Country Coun	Resolution	0.1069mV	0.2849mV		0.1069mV	0.2849mV	1.3537mV	0.1069mV	0.2849mV	1.3537mV	
Country Coun	Accuracy *5	0.025%+	-0.01%F.S.	0.01%+0.025%F.S.	0.025%+	0.01%F.S.	0.01%+0.025%F.S.	0.025%+	0.01%F.S.	0.01%+0.025%F.S.	
Reging											
Recolution		0~0.2A	0~2A	0~20A	0~0.6A	0~6A	0~60A	0~0.8A	0~8A	0~80A	
Packed P											
Power resolution Power P		0.000043111/1		0.023301111/1	0.000072111/1		1.00307011171	0.010030111/1		1.01100111/1	
Range		1	0.0070000701.0			0.03 /0+0.03 /01.3.			0.0070+0.00701.0		
Accuracy 5		4014	1 0014	40014	0014	COM	1 00004/	00141	COM	40014/	
Voltage Manufact		IOVV		TUUW	3000		30000	DUVV		40000	
Bandwidth 20 Hz			0.1%+0.1%F.S.			0.1%+0.1%F.S.			0.1%+0.1%F.S.		
Dipple											
Output	Bandwidth										
DSSES DSSES DSSES DSSES	Range		6V/16V/80V								
DSSES DSSES DSSES DSSES	Output							- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Current Montor											
Bandwidth											
Bange			20 kHz			20 kHz			20 kHz		
Output		n~0.2Δ		0~20Δ	0~0.1Δ		0~10Δ	በ~በ ጳል		المحم	
Accuracy		U~U.ZA		U~ZUA	U~U.1A		U~TUA	U~U.UA		U~00A	
Protection											
Over Power			0.5%F.S.			0.5%F.S.			0.5%F.S.		
Over Unrent		<u> </u>									
Over Vellage Alarm*3 105-110% of Rated Voltage 105-110% of Rated Voltage 105-110% of Rated Voltage Over Temperature Yes Yes Yes Newerse Yes Yes Yes Interface Ves Standard Standard Bennete controller Optional Optional Optional Optional GPB Optional Optional Optional Optional Optional GPB Optional Advanced New Temperature Advanced New Temperature Advanced Advanced New Temperature Advanced New											
Ves Yes											
Reverse Yes Yes Yes Yes Yes Yes Yes Interface	Over Voltage Alarm*8	10	05~110% of Rated Vo	Itage	105~110% of Rated Voltage			105~110% of Rated Voltage			
Reverse Yes Yes Yes Yes Yes Yes Yes Interface	Over Temperature				Yes			Yes			
Interface USB			Yes					Yes			
USB			100			100			100		
Remote controller Optional Op		1	O			0	 1		0		
Ethernet											
Optional System BUS Master/Slave & Remote Controller Master/Slave & Remote Controller Master/Slave & Remote Controller Master/Slave & Remote Controller	Remote controller		Optional		Optional						
System BUS Master/Slave & Remote Controller Master/Slave & Remote Controller	Ethernet		Optional		Optional			Optional			
System BUS Master/Slave & Remote Controller Master/Slave & Remote Controller	GPIB		Optional					Optional			
Outs Dout No. of bits 2 bits per mainframe 2 bits per mainframe Level - H 1.8V/3.3V/5V switchable 1.8V/3.3V/5V switchable 1.8V/3.3V/5V switchable Level - L -d.06V@Isse=10mA -d.06V@Isse=10mA -d.06V@Isse=10mA -d.06V@Isse=10mA Drive Pull_up resistor = 4.7kΩ Pull_up resistor = 4.7kΩ Pull_up resistor = 4.7kΩ Din (TTL Compatible, Rising Edge) No. of bits 2 bits per mainframe 2 bits per mainframe External Trig. for Digitizing No. of bits 1 bit per mainframe 1 bit per mainframe 1 bit per mainframe External Trig. for Auto Sequences (TTL Compatible, Rising Edge) No. of bits 1 bit per mainframe 1 bit per mainframe 1 bit per mainframe Load ON - O/P Level TTL Compatible, Level, Active High		Maste		ontroller				Master/Slave & Remote Controller			
Doub						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			.,		
No. of bits											
Level - H 1.8V/3.3V/5V switchable 1.8V/3.3V/5V switchable 1.8V/3.3V/5V switchable Level - L -Q.6/Ø/glinic=10mA -Q.6/Ø/glinic=10mA -Q.6/Ø/glinic=10mA Drive Pull_up resistor = 4.7k Ω Pull_up resistor = 4.7k Ω Pull_up resistor = 4.7k Ω Pull_up resistor = 4.7k Ω No. of bits 2 bits per mainframe 2 bits per mainframe External Trig. for Digitizing No. of bits 1 bit per mainframe 1 bit per mainframe No. of bits 1 bit per mainframe 1 bit per mainframe 1 bit per mainframe Level Auto Sequences (TTL Compatible, Rising Edge) No. of bits 1 bit per mainframe 1 bit per mainframe Load ON - O/P No. of bits 1 bit per mainframe 1 bit per mainframe 1 bit per mainframe Level TTL Compatible, Level, Active High TTL Compatible, Level, Active High TTL Compatible, Level, Active High Short ON - O/P No. of channels 10 channels per mainframe 10 channels per mainframe 10 channels per mainframe Level TTL Compatible, Level, Active High TTL Compatible, Level, Active High TTL Compatible, Level, Active High Short circuit			2 hite per mainfram	0		2 hite nor mainfram	0		2 hite per mainfram	0	
Level - L <0.6V@l _{sink} =10mA <0.6V@l _{sink} =10mA <0.6V@l _{sink} =10mA Drive Pull_up resistor = 4.7k Ω Pull_up resistor = 4.7k Ω Pull_up resistor = 4.7k Ω Din (TTL Compatible, Rising Edge) No. of bits 2 bits per mainframe 2 bits per mainframe No. of bits 1 bit per mainframe 1 bit per mainframe External Trig, for Digitizing No. of bits 1 bit per mainframe 1 bit per mainframe External Trig, for Auto Sequences (TTL Compatible, Rising Edge) No. of bits 1 bit per mainframe 1 bit per mainframe Load ON - O/P 1 bit per mainframe 1 bit per mainframe Level TTL Compatible, Level, Active High TTL Compatible, Level, Active High TTL Compatible, Level, Active High Short Or O/P No. of channels 1 0 channels per mainframe 10 channels per mainframe 10 channels per mainframe Level TTL Compatible, Level, Active High TTL Compatible, Level, Active High TTL Compatible, Level, Active High Short circuit Current *6 Set to 105% of rated current (H range) Set to 105% of rated current (H range)											
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EMC & Safety CE CE CE	<u> </u>										
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NOTE*1: The maximum current loading below the minimum operating voltage (0.5V) will follow a derating curve.

NOTE*2: The 400W power rating of the 63640-80-80 specified at an ambient temperature of 35°C, please refer to the power rating curve on the right.

NOTE*3: Does not apply to setting current < 0.25% full scale current in high range. Does not apply to setting current < 0.05% full scale current in low and middle range.

NOTE*4: The full scale is Vmax x lmax.

NOTE*5: The DC level measurements are made over a period of 20ms, and does not measure any transient signals in the DC measurements.

NOTE*6: Its limits are the maximum power and maximum current of the current ragne.

NOTE*7: The 63600 is guaranteed to meet specified performance at temperature range of 25±5°C.

NOTE*8: If the operating voltage exceeds the rated voltage for 1.1 times, it would cause permanent damage to the device.

NOTE*9: Please refer to user's manual for detail specifications.

NOTE 3.1 reaso folds to user 3 manual for detail specifications.								
Model	63600-1	63600-2	63600-5					
Number of slots	1 slot	2 slots	5 slots					
Operating temperature	0~40°C	0~40°C	0~40°C					
Input Rating	90~127 / 175~253VAC Switchable / 47~63Hz	90~130 / 175~253VAC Switchable / 47~63Hz	90~130 / 175~253VAC Auto Range / 47~63Hz					
Mainframe dimension (HxWxD)	177x70.22x554.9mm / 7x2.76x21.8 inch	177x210x554mm / 7.0x8.27x21.8 inch	177x447x554mm / 7.0x17.6x21.8 inch (Full Rack)					
Weight	7.5kg / 16.53lbs	11.5kg / 23.35lbs	15.6kg / 34.39lbs					