

33430G Series High Power LED DC Electronic Load Simulator



33431G 600V, 12A, 1800W

33432G 600V, 24A, 3600W



Features

- LED mode load for LED Power Driver test.
- CC, CR, CV, CP, LED and Dynamic mode.
- Simulate LED Forward Bias Voltage (Vd) and Resistance (Rd).
- Not only CC, CR, and CP mode have parallel operation functions, but CV mode also has parallel operation functions.
- Fast Response for PWM dimming test.
- Built-in dimming control signal for PWM dimming test.
- Short circuit test by external relay (built-in short relay driver circuit).
- 5 digital V / A / W Meter.
- Protections against V, I, W, and °C.
- Optional Interface : GPIB 、 RS232 、 USB 、 LAN.

Descriptions

- Each 33430G Series has its own control and display panel, LED/CC/CR/CV/CP/ Dynamic modes, panel with 150 sets Store/Recall memory which provides load set-up more efficiently , also can be controlled intranet via RS232 、 Ethernet 、 USB and GPIB interface.
- Short circuit test by external relay (there is an optional fixture for short), Short Time can be set and Short Voltage can be measured.
- Built-in dimming control signal output is for PWM dimming test of LED driver.
- Simulate LED forward Bias voltage (Vd) and Resistance (Rd).
- 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 can call the storage memory real time in accordance with the auto sequence requirement.

Applications

- LED Driver
- Voltage / Current source
- SMPS transient response
- Current limit testing and battery emulation
- Battery charger
- Battery discharge
- R&D / Quality Control
- ATE system
- Production testing

Specifications

MODEL	33431G	33432G
Power	1800W	3600W
Current	0~12A	0~24A
Voltage	0~600V	0~600V
Min. Operating Voltage	6V @ 12A	6V @ 24A
Constant Current Mode		
Range*1	0~3A / 12A	0~6A/24A
Resolution	0.05mA / 0.2mA	0.1mA/0.4mA
Accuracy	± 0.1% OF (Setting + Range)	
Constant Resistance Mode		
Range	CRL : 0.5~1.5K(300V) / CRH : 1-3K(600V)	CRL : 0.25-3K(300V) / CRH : 0.5-6K(600V)
Resolution	CRL : 3.333μS / CRH : 1.666μS	CRL : 6.666μS / CRH : 3.333μS
Accuracy	± 0.2% OF (Setting + Range)	
Constant Voltage Mode		
Range	60V / 300V / 600V	60V / 300V / 600V
Resolution	1mV / 5mV / 10mV	1mV / 5mV / 10mV
Accuracy	± 0.05% OF (Setting + Range)	
Constant Power Mode		
Range	1800W	3600W
Resolution	30mW	60mW
Accuracy	± 0.5% OF (Setting + Range)	
LED Mode		
Vo Voltage Range	LEDL:60V / LEDM:300V / LEDH:600V	
Rd Resistance Range	LEDL : 0.5~100Ω@Vo-Vd=0~6V LEDM : 25~5KΩ@Vo-Vd=30~300V LEDL : 5~1KΩ@Vo-Vd=6~60V LEDH : 5~1KΩ@Vo-Vd=0~60V	LEDL : 0.25~125Ω@Vo-Vd=0~6V LEDM : 12.5~6.25KΩ@Vo-Vd=30~300V LEDL : 2.5~1.25KΩ@Vo-Vd=6~60V LEDH : 2.5~1.25KΩ@Vo-Vd=0~60V
Resolution	16Bits	
Accuracy	Vd : ± (0.05%OF SETTING+0.1% OF RANGE) , Rd : ± (0.05%OF SETTING+0.1% OF 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	2.4mA~150mA/μS	9.6mA~600mA/μS 4.8mA ~ 300mA/μS 19.2mA ~ 1200mA/μS
Resolution	0.6mA/μS	2.4mA/μS 1.2mA/μS 4.8mA/μS
Min. Rise Time	20μS(typical)	
Current		
Range	0~3A / 12A	0~6A/24A
Resolution	0.05mA / 0.2mA	0.1mA/0.4mA
Measurement		
Voltage Read Back		
Range (5 Digital)	60V / 300V / 600V	60V / 300V / 600V
Resolution	1mV / 5mV / 10mV	1mV / 5mV / 10mV
Accuracy	± 0.025% OF (Reading + Range)	
Current Read Back		
Range (5 Digital)	0~3A / 12A	0~6A / 24A
Resolution	0.05mA / 0.2mA	0.1mA / 0.4mA
Accuracy	± 0.1% OF (Reading + Range)	
Power Read Back		
Range (5 Digital)	0~1800W	0~3600W
Resolution	0.01W	
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	
General		
Imonitor	1.2A/V	2.4A/V
Accuracy	0.5% of (READING+RANGE)	
short Single Output	12V/100mA	12V/100mA
Short Circuit		
Current	12A	24A
Dimming Control		
Level Range	0~12V	
Resolution	0.048V	
Accuracy	1% of (SETTING + RANGE)	
Frequency Range	DC~1KHz	
Resolution	10Hz	
Duty Range	0.01~0.99(1%~99%)	
Resolution	0.01	
Temperature Coefficient	100ppm/°C (typical)	
Power Consumption	100Wmax	200Wmax
Operating Temperature*2	0~40°C	
Dimension(HxWxD)	177 x 440 x 445 mm	839 x 600 x 600 mm
Weight	23.6 Kg	81.2 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

Optional Interface :

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



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Option :

Fixture for short

