KENWOOD

Test and Measuring Instrument

Product Information

Multi-channel

DC Electronic Load

LW Series

The most suitable to the production line of the switching power supply and the battery. High cost performance.



LW75-151Q
75W/150V/15A, 4 Channel

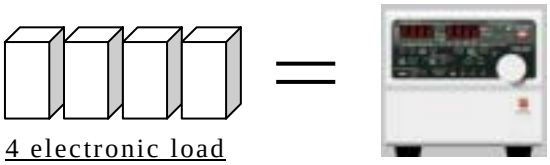
LW75-151D
75W/150V/15A, 2 Channel

LW151-151D
150W/150V/30A, 2 Channel

LW301-151S
300W/150V/60A, 1 Channel

Multi-channel & individual control

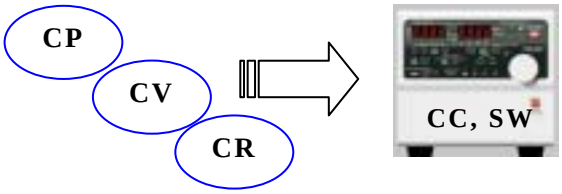
Each channel is isolated and can be controlled by individually.



4 electronic load

High cost performance

The CC and SW mode of most necessary are standard. And other mode such as CP, CV and CR is factory option.



4 points presetting

4 sets of frequency used value can be preset.



Maximum 12 channel in full rack size



Full rack size

Key lock

The key lock function provides to hold all setting values.



Various remote controls (user option)

It is possible to add the interface function of GP-IB or USB after purchase for user option.

Front input terminal (factory option)

The terminal is provided by factory option. (Maximum input current is 30A.)



PRODUCT INFORMATION

LW Series Multi-channel DC Electronic Load

Specifications

		LW75-151Q	LW75-151D	LW151-151D	LW301-151S
Channel		4ch	2ch	2ch	1ch
Input					
Input power range	H range	0 to 75W	0 to 75W	0 to 150W	0 to 300W
	L range	0 to 13.125W	0 to 13.125W	0 to 26.25W	0 to 52.5W
Input voltage		1 to 150V			
Input current range	H range	0 to 15A	0 to 15A	0 to 30A	0 to 60A *
	L range	0 to 2.625A	0 to 2.625A	0 to 5.25A	0 to 10.5A
Setting range	H range	0 to 15.75A	0 to 15.75A	0 to 31.50A	0 to 63.00A *
	L range	0 to 2.625A	0 to 2.615A	0 to 5.250A	0 to 10.500A
Logic resolution	H range	10mA (fine:1mA)	10mA (fine:1mA)	10mA (fine:2mA)	10mA (fine:5mA)
	L range	1mA (fine:0.1mA)	1mA (fine:0.1mA)	1mA (fine:0.2mA)	1mA (fine:0.5mA)
Setting accuracy		±(0.5%SET+0.3%FS): 23 ± 5 degrees			
Switching mode					
Action/ Setting method		Switch the PRESET value1, 2 or 3, 4/ Setting by frequency, DUTY or setting by time			
Freq./Duty setting range		1 to 500Hz/ 10 to 90%			
Time setting range		0.1ms to 900ms			
Current limit mode					
Setting range/ resolution	H range	0.75 to 15.75A/10mA	0.75 to 15.75A/10mA	1.50 to 31.50A/20mA	3.00 to 63.00A*/50mA
	L range	0.125 to 2.625A/1mA	0.125 to 2.625A/1mA	0.250 to 5.250A/2mA	0.50 to 10.50A/10mA
Constant resistance mode (factory option)					
Setting range/ resolution	H range	0.1 to 3k ohm/333us	0.1 to 3k ohm/333us	0.05 to 1.5k ohm/666us	0.025 to750ohm/1.33ms
	L range	0.6 to 18k ohm/55.5us	0.6 to 18k ohm/55.5us	0.3 to 9k ohm/111us	0.15 to 4.5k ohm/222us
Constant voltage mode (factory option)					
Setting range/ resolution		0.00 to 157.50V/100mV (fine:10mV)			
Constant power mode (factory option)					
Setting range/ resolution	H range	0.000 to 78.75W/ 100mW (fine: 10mW)	0.000 to 78.75W/ 100mW (fine: 10mW)	0.000 to 157.50W/ 100mW (fine: 20mW)	0.000 to 315.00W/ 100mW (fine: 50mW)
	L range	0.000 to 13.12W/ 10mW (fine: 1mW)	0.000 to 13.12W/ 10mW (fine: 1mW)	0.000 to 26.25W/ 10mW (fine: 2mW)	0.000 to 52.500W/ 10mW (fine: 5mW)
Remote sensing (factory option)					
Correct voltage		One way: 1V (at load input terminal voltage 0.8 to 150V)			
DC current measurement					
Resolution		H range: 10mA, L range: 1mA			10mV
Accuracy		±(0.5%RDG+0.3%FS): 23 ± 5 degrees			
Measurement cycle		2 times or more per second			
DC voltage measurement					
Resolution		H range: 100mV, L range: 10mV (at auto-range, hysteresis: 90V/100V)			
Accuracy		±(0.5%RDG+0.3%FS): 23 ± 5 degrees			
Measurement cycle		2 times or more per second			
DC power measurement					
Resolution		H range: 100mW, L range: 10mW			100mW
Accuracy		±(1%RDG+0.6%FS): 23 ± 5 degrees			
Measurement cycle		2 times or more per second			
External control					
Load on/off		LOAD ON by short the terminal			
Preset 1 - 4		Select PRESET 1 to 4 by short the terminal			
Alarm in/out		IN: LOAD OFF by short the terminal, OUT: short the terminal and LOAD OFF at alarm on			
Protect function					
Out of input voltage range		Load off at 165V or more in the input voltage			
Over current (OCA)		Load off at 115% or more in the rated input current			
Over power (OPL)		Power limit circuit on at 115% or more in the rated input power			
Over heating (OHA)		Load off at 125 degrees of heat sink temperature			
Reverse connection		Shorting by protect diode			
Temp./humidity for operation		0 to 40 degrees/20 to 85% RH (with no condensation)			
Power requirement					
Case dimensions		138(D) x 124(H) x 380(D) mm			
Accessories		Connector for external control – 1, Instruction manual – 1, AC cable – 1,			

*: Maximum input current is 30A when the front input terminal is added with factory option.

KENWOOD TMI CORPORATION

1-16-2 Hakusan, Midori-ku, Yokohama City 226 Japan

TEL: (81)45-939-6262 FAX: (81)45-939-6263

HOME PAGE : http://www.kenwoodtmi.co.jp

E-mail : info@kenwoodtmi.co.jp

Specifications are subject to change without notice.