

KWK RESISTORS INDIA



Programmable DC Electronic Load KELB60 Series 600W-1200W

KELB60 is a precision programmable DC electronic load controlled by a high performance microprocessor. It uses 3.5-inch TFT true color LCD display offers 4 basic working modes (CC/CV/CR/CW) and 10 functional modes.

With comprehensive protection, over-heat protection, over-current protection, over-power protection, over-voltage protection, loop oscillation protection. KELB60 series E-load supports RS232, LAN, USB and analog interfaces to fit your versatile solution and testing needs.



Test Function

4 basic working modes CC/CV/CR/CW and 11 functional modes multiple extended function modes:

- ◆ DYNA dynamic test function
- ◆ OCP over current protection mode
- ◆ BATT battery mode
- ◆ EFFT load effect mode
- ◆ SWEEP dynamic frequency conversion scanning function.
- ◆ TIMEING _me measurement function
- ◆ OVP over voltage protection mode
- ◆ AUTO mode
- ◆ LIST function

Features

- ◆ 500 kHz high speed voltage, current sampling rate
- ◆ High precision voltage and current measurement
- ◆ Fast loop response speed and current slew rate
- ◆ Programmable single step up to 10 μ S
- ◆ Equipped with remote four –wire compensation
- ◆ Unique real-time display of current ripple and voltage ripple
- ◆ Real-time display of load power and resistance

Specification

Model	KELB601				KELB601B				KELB122				KELB122B			
Input Voltage	15V	150V	50V	500V	15V	150V	50V	500V	15V	150V	50V	500V	15V	150V	50V	500V
Input Current	12A	120A	6A	60A	12A	120A	6A	60A	24A	240A	6A	60A	24A	240A	6A	60A
Input Power	600W								1200W							
Min.operation voltage	1.5V@120A				4V@60A				1.5V@240A				4V@60A			
Min rise time@ FS current	60 μ s				60 μ s				60 μ s				60 μ s			
CV Mode																
Range	15V	150V	50V	500V	15V	150V	50V	500V	15V	150V	50V	500V	15V	150V	50V	500V
Resolution	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV	0.7mV	7mV
Accuracy	$\pm(0.05\%+0.025\%FS)$															
CC Mode																
Range	12A	120A	6A	60A	12A	120A	6A	60A	24A	240A	6A	60A	24A	240A	6A	60A
Resolution	0.1mA	1mA	0.09mA	0.9mA	0.1mA	1mA	0.09mA	0.9mA	0.3mA	3mA	0.09mA	0.9mA	0.3mA	3mA	0.09mA	0.9mA
Accuracy	$\pm(0.05\%+0.05\%FS)$								$\pm(0.1\%+0.1\%FS)$				$\pm(0.05\%+0.05\%FS)$			
CR Mode																
Range	0.1 Ω -7.5k Ω				0.1 Ω -7.5k Ω				0.1 Ω -7.5k Ω				0.1 Ω -7.5k Ω			
Resolution	16 Bits															
Accuracy	$\pm 0.1\%$															

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CW Mode								
Range	600W				1200W			
Resolution	16 Bits							
Accuracy	±(0.1%+0.1%FS)							
Dynamic mode								
Ta & Tb	10µs - 50s							
Min.resolution	10µs							
Min.rise time	1.5A/µs	0.5A/µs			3.2A/µs		0.8A/µs	
Read-back voltage								
Range	15V	150V	50V	500V	15V	150V	50V	500V
Resolution	0.1mV	1mV	0.3mV	3mV	0.1mV	1mV	0.3mV	3mV
Accuracy	±(0.025%+0.025%FS)							
Read-back current								
Range	12A	120A	6A	60A	24A	240A	6A	60A
Resolution	0.09mA	0.9mA	0.02mA	0.2mA	0.1mA	1mA	0.04mA	0.4mA
Accuracy	±(0.05%+0.05%FS)				±(0.05%+0.05%FS)			
Read-back Ripple								
Range (R/I)	150V/120A		500V/60A		150V/240A		500V/60A	
Bandwidth	10Hz-250kHz							
Accuracy	±0.1%							
Protection Range								
Over-power protection	630W		630W		1260W		1260W	
Over-current protection	126A		63A		252A		63A	
Over-voltage protection	158V		525V		158V		525V	
Over-temperature protection	=85°C							
Specification								
Dimension (D*W*H)	483mm*428mm*89.5mm							
Gross Weight	19.5 Kg							

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