

KWK RESISTORS INDIA



Programmable DC Electronic Load 1800W-2400W Series

KELBXX-M load 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.

KELBXX-M series E-load supports RS232, LAN, USB and analog interfaces to



Test Function

4 basic working modes CC/CV/CR/CW and 10 functional modes multiple extended function modes:

- ◆ Dynamic test mode (DYNA);
- ◆ OCP mode
- ◆ EFFECT mode
- ◆ Professional battery test function
- ◆ High-speed dynamic frequency conversion scanning function (SWEEP)
- ◆ AUTO mode
- ◆ Timing test mode.

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 10μS
- ◆ Equipped with remote four –wire compensation
- ◆ Unique real-time display of current ripple and voltage ripple
- ◆ Real-time display of load power and resistance

Specifications

Model	KELB182		KELB182B		KELB242		KELB242B	
Input Voltage	15V	150V	50V	500V	15V	150V	50V	500V
Input Current	24A	240A	12A	120A	24A	240A	12A	120A
Input Power	1800W				2400W			
Min.operation voltage	1V@240A		5.5V@120A		1.5V@240A		4.5V@120A	
Min rise time@ FS current	25μs		25μs		25μs		25μs	
CV Mode								
Range	15V	150V	50V	500V	15V	150V	50V	500V
Resolution	0.2mV	2mV	0.7mV	7mV	0.2mV	2mV	0.7mV	7mV
Accuracy	±(0.03%+0.02%FS)							
CC Mode								
Range	24A	240A	12A	120A	24A	240A	12A	120A
Resolution	0.3mA	3mA	0.1mA	1mA	0.3mA	3mA	0.1mA	1mA
Accuracy	±(0.03%+0.02%FS)							
CR Mode								
Range	0.006Ω-6kΩ		0.025Ω-42kΩ		0.008Ω-6kΩ		0.03Ω-42kΩ	
Resolution	16 Bits							
Accuracy	±0.1%							
CW Mode								
Range	1800W				2400W			
Resolution	16 Bits							
Accuracy	±(0.1%+0.1%FS)							

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Dynamic mode

Ta & Tb	10μs - 50s			
Min.resolution	10μs			
Min.rise time	3A/μs	3A/μs	3A/μs	3A/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	±(0.015%+0.01%FS)							

Read-back current

Range	24A	240A	12A	120A	24A	240A	12A	120A
Resolution	0.1mA	1mA	0.09mA	0.9mA	0.1mA	1mA	0.09mA	0.9mA
Accuracy	±(0.015%+0.05%FS)		±(0.03%+0.02%FS)					

Read-back Ripple

Range (R/I)	500V / 120A			
Bandwidth	10Hz - 250kHz			
Accuracy	±1%			

Protection Range

Over-power protection	1890W	1890W	2420W	2520W
Over-current protection	252A	126A	252A	126A
Over-voltage protection	158V	525V	158V	525V
Over-temperature protection	=85°C			

Specification

Dimension (L*W*D)	464.4mm-463.6mm*173mm
Gross Weight	19.5Kg

Applications



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