

## K-3980 Battery Load Bank



**Model No.: LB-1240 (125V 400A)**

**Typical application: Power**

**LB-1240** DC load unit is specially designed for discharge experiment, battery capacity test, battery maintenance, engineering examination and other tests for DC power with load. It is specifically designed for 125V battery system with max discharge current of 400A. This makes it applicable for battery discharge in the areas of power utility.

With its optional Data Acquisition Case (DAC), you will have a real-time monitoring for the whole process of discharge with wireless communication in PC.

### Our Advantages

- 1) K-3980 has different customized models to meet requirement of customers from various industries exactly.
- 2) Its optional data loggers enable a wireless communication with computer. And it will monitor the whole process of discharge including voltage of EACH cell.
- 3) Standard discharge function and other functions like assistant discharge, parallel load, external load & charge monitor. Compatible with non-Kongter load banks.
- 4) Rugged, reliable and durable with very good price.

### Features

- ◆ Optional wireless DAC enables real-time PC monitor during measurement
- ◆ It sets 4 conditions for discharge auto shut-down:
  - Discharge time, discharge capacity, string voltage and cell voltage
- ◆ Continued discharge available when previous discharge is stop abnormally
- ◆ Parallel connection of two units for higher discharge current
- ◆ Assistant discharge to add load to even non-Kongter load banks
- ◆ Can monitor measurement of other load banks or battery charger
- ◆ Accurate data measurement and vivid waveforms of PC software
- ◆ Auto sorting for lag-out batteries during discharge
- ◆ Safe circuits avoids damage to battery during measurement
- ◆ Powerful management software for data analysis and report generation
- ◆ Automatic protection upon over-heating and overload

### Optional Data Acquisition Case (DAC)

Each DAC is recording voltage of up to 12 cells. It has wireless communication with K-3980 main unit and PC. And it is capable to measure all type of batteries (1.2V, 2V, 6V & 12V). Kongter also offers customized DAC for other battery types.

DAC numbers are easily expandable to cover more battery volumes.

### Its Connection:

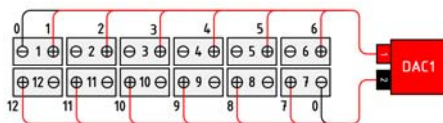
One DAC is connected with 12 cells of 1.2V, 2V or 4 cells of 12V (or 6V). Therefore, in different battery systems, they require different amount of DACs. With DAC, K-3980 and Kongter PC software will be able to monitor and record voltage of each cell together with other parameter like String Voltage, Current, Discharge Capacity and so on.

For the model of LB-1240, it will require 6 standard DACs for measurement of 2V, 6V and 12V cells.

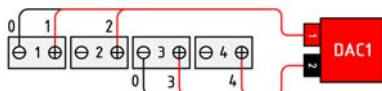
### Optional DAC



Connection with 1.2V or 2V cells:



Connection with 6V or 12V cells:



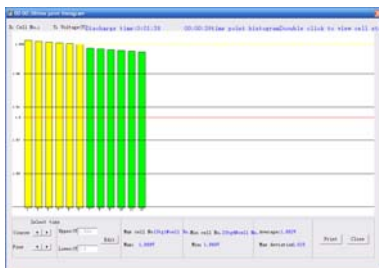
## Composition:

### Standard parts:

- ◆ Main unit of load bank
- ◆ Data View software
- ◆ Set of 3m/10ft load cables
- ◆ 3m/10ft voltage test leads
- ◆ PC communication terminal
- ◆ Ground cable
- ◆ AC Power cord
- ◆ USB with backup info
- ◆ Antenna

### Optional:

- ◆ DAC package
- ◆ Current clamp for external loads
- ◆ Parallel load cable



K-3980 PC Software

## Technical Parameters

Power supply	AC 220V/110V, 50/60Hz;
Cell type	1) Standard: 1.2V <sup>1</sup> , 2V, 6V and 12V 2) Customized: 12V ONLY or other uncommon battery types.
Discharge voltage range	10V-143.7V (Constant current of 400A in the range of 112V-143.7V)
Discharge current range	Single load bank: 10A-400A Parallel load: 10A-800A
Accuracy	Current: 1% Voltage: 0.5% – 0.8%
Resolution	Current: 0.1 A or 0.5% Voltage: 0.001 V
Sampling Interval	5s – 1min
Discharge pattern	Constant current
Display	128*64 pixel LCD
Data transfer	USB, Radio Frequency (for DAC to load bank)
Operation Temperature	0°C ~ 40°C (32 – 104 °F)
Humidity	5% ~ 90% Relative humidity
Standard	CE marking, EMC standard
Main Unit Dimension	73*40*96cm
Main unit Weight	55 kg

### \*NOTE:

- 1) Quantity of DAC and cable in standard DAC package are based on 2V, 6V and 12V. For measurement of 1.2V Ni-cd batteries, you will require some more DACs and relevant cables.

## Kongter PC Software

All standard load units of K-3980 come with PC software. With the software, you have a real-time data monitoring, analyze the testing data and easily print out the complete report.

