



Enquiry No.: IITK/CHE/R. Pala/2015-16/02

Enquiry Date: July 02, 2015

Closing Date: July 08, 2015

Sealed quotation(s) in Indian Rupees or USD with all technical details so as to reach latest by 3:00 PM on July 08, 2015 are invited for the supply of following items.

Note: Please provide Price Bid and Technical bid combined in single quotation and also mention the enquiry number and instrument name on the sealed envelope carrying the quotation.

8 Channel Battery Testing Machine 5V 10mA

General Specifications

AC Input : AC 220V \pm 10% , 50Hz

Power : 500 mW

Resolution: AD: 16bit ; DA: 12bit

Input Impedance \geq 1M Ω

Voltage Measuring Range:

Charge : 10mV~5V

Discharge: 10mV~5V

Discharge Min Voltage : 10 mV

Accuracy : \pm 0.1% of FS

Stability : \pm 0.1% of FS

Current Range:

Charge: 0.02mA~10mA

Discharge: 0.02mA~10mA

Accuracy : \pm 0.1% of FS

Stability : \pm 0.1% of FS

Power

Output Power Per Channel : 50 mW

Stability : \pm 0.2% of FS

Time:

Rise Time : 20 ms (0~Full Range)

Step Time : \leq (365*24) hour/step

Time Format : 00 : 00 : 00 (h:min:s)

Data Acquisition:

Time interval Δt : 1s ~ 60000s

Voltage interval ΔU : 10mV ~ 5V

Current interval ΔI : 0.02mA ~ 10mA

Frequency : 1Hz

Charge:

Mode of Operation : CCC, CVC, CC & CVC

End Conditions : Voltage, Current, Test Time, Capacity

Discharge:

Mode of Operation : CCD, CPD

End Conditions : Voltage, Current, Test Time, Capacity

Cycle:

Cycles : 65535

Steps : 254

Nested Function : Max three levels of loops

Protective Function Software:

- Power-off data protection
 - Off-line Operating
- User-defined safety (upper and lower) tolerance of current, voltage and delay time

Channel Features : Independent pairs of closed loop for constant current source and constant voltage source

Channels : Independent control

Number of Channels Per Cabinet : 8

Detection and Sampling : 4-wire Connecting

Noise Density : < 85 dB

Data Management : MYSQL Database

Communication Means : TCP/IP Protocol

Export Formats : EXCEL, TXT, Graph

Communication Interface : Ethernet Port

Operating Temperature : 0°C ~ 40°C

Storage Temperature : -10°C ~ 50°C

Operating Humidity : ≤70% RH

Storage Humidity : ≤80% RH

Standard package includes:

1. Main machine (Qty.: 1 no.)
2. RS 232 cable (Qty.: 1 no.)
3. Software (Qty.: 1 no.)
4. Alligator clip (Qty.: 8 no.)
5. Power cord (Qty.: 1 no.)

The machine should be duly certified/ authorized and the vendor should produce the certificate for the same.

Terms & Conditions:

- I. Price Bid and Technical bid should be combined.
- II. Prices (FOB/ High Sea Sales) should include delivery up to nearest airport.
- III. Clearly state the CIF charges to IIT Kanpur and other taxes as applicable.

- IV. Warranty should at least be for 1-3 years after installation.
- V. Validity of quotation should be at least for 90 days.
- VI. The delivery time should be clearly mentioned. Shorter delivery time may be given a preference.
- VII. The delivery period should be specifically stated.

Kindly mention the enquiry number on the sealed envelope carrying the quotation.

The quotation/s may be submitted as per the attached format. Kindly send the sealed quotation(s) to the following address:

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