



- RSI make **REDOX FLOW BATTERY TEST STATION** is fully designed and integrated with software controlled (**Made in India**) to meet complex research needs of the researchers.
- RFB focussed to provide modularity in design and also complies with international standards from every aspect.
- Critical components in the system like E-Load, Peristaltic Pump, Controllers are supplied from a world class manufacturer to ensure the precision & safe work environment.
- Send us your requirements and we will prepare a detailed offer for your turn-key project.

PUMP SPECIFICATIONS

Electrolyte flow – anode	100 mL to 500 mLPM
Electrolyte flow - cathode	100 mL to 500 mLPM
Speed variation facility	✓
Suitable for Vanadium	✓
Set Flow/ Volume and time	✓
Forward and reverse control	✓
N2 purge	✓
Software controlled flow range selection	✓

POWER SUPPLY AND LOAD

MAX VOLTAGE	32V- 60V
MAX CURRENT	80A
POWER	1600W
Voltage Accuracy	$\leq 0.03\% + 0.03\%FS$
Current Accuracy	$\leq 0.1\% + 0.1\%FS$
Response Time	0.1 ms
Operation modes	CC,CV,CR & CP

HIGH FREQUENCY RESISTANCE MONITORING (OPTIONAL)

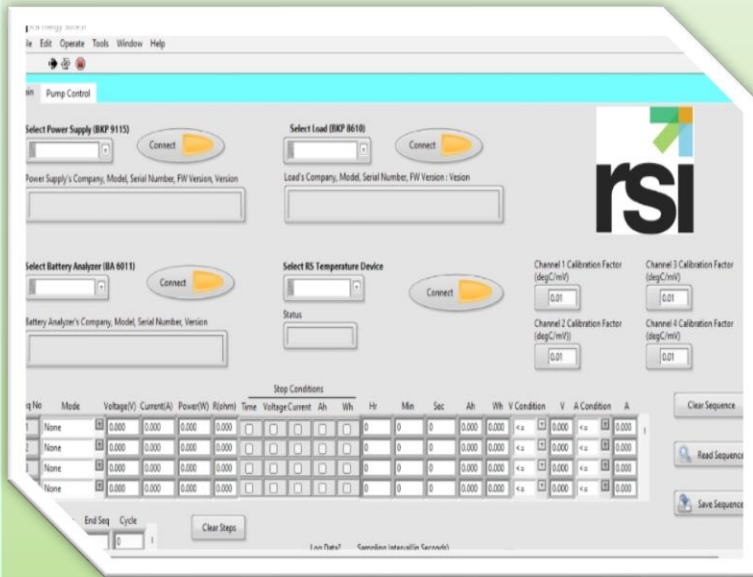
Frequency	1 KHz
Method	Four probe
Remote data collection	✓
Continuous monitoring during charge/ Discharge	✓
Software integration	✓



SYSTEM INFORMATION:

REDOX FLOW BATTERY TEST STATION SPECIFICATION	
PRODUCT CODE	RSI - RFB -100
POWER	220-240VAC, 50Hz
POWER RANGE	Up To 1600 W, 10 KW, 2000A, 120V - Please Consult with Our Technical Team To Choose Your Right Power Range
DIMENSION	(900*750*1470) mm
WEIGHT	290 Kg approx. (Subjected to the model)
NOTE: Please consult with our technical team to meet all your customised requirements	

SYSTEM REQUIREMENT	
Processor	Intel Core i5 or AMD Ryzen 7 (or equivalent)
Memory (RAM)	16 GB or higher
Storage:	512 GB SSD or larger
Graphics	Dedicated graphics card with at least 4 GB VRAM (NVIDIA GeForce or AMD Radeon)
CPU Operating System:	Windows 10 or macOS (latest version)



- Techniques:
(charge ,discharge
CC/CV/CR/CW according to
time)
- Loop :
(Multiple Cycles, Sequences)
- Computer-controlled
peristaltic pumps (2)
(100-500 mL/min)

- Log all data into excel format
- Real time Graphical
Representation
- Capacity Monitor
(Ah Vs Time Vs Wh)
- Voltage Monitor
(Voltage Vs Time)
- Impedance monitor
(Impedance(Ohm) Vs Time)
- Temperature Monitor
(channel 1-8)-Optional



WORKING OF REDOX FLOW BATTERY TEST STATION

<https://youtu.be/TWux5dQ1Kh4?si=o5lR7FgKmFUy2LcC>

THANK YOU !



Please consult with our technical team to meet all your customised requirements



RESEARCH SUPPORTERS INDIA

ISO 9001: 2015

MANUFACTURING AND R&D HQ

No.63/1, Club House Road,
Maruthi Nagar, Hosur- 635109, Tamil nadu ,India
Mail id :sales@rsindia.net, Ph: 8148274261

FOLLOW US

