

## CS350M Potentiostat + CS2020B Current Booster

CS2020B current booster can be used with model CS350M single channel potentiostat/galvanostat. This combination can be applied in the field of fuel cell, soft pack battery, battery core testing, electroplating etc. The maximum current output is  $\pm 20A$ .

CS350M can be used alone as ordinary single channel potentiostat, and can also be used with CS2020B booster. CS2020B can also be connected to any other models to boost the current.

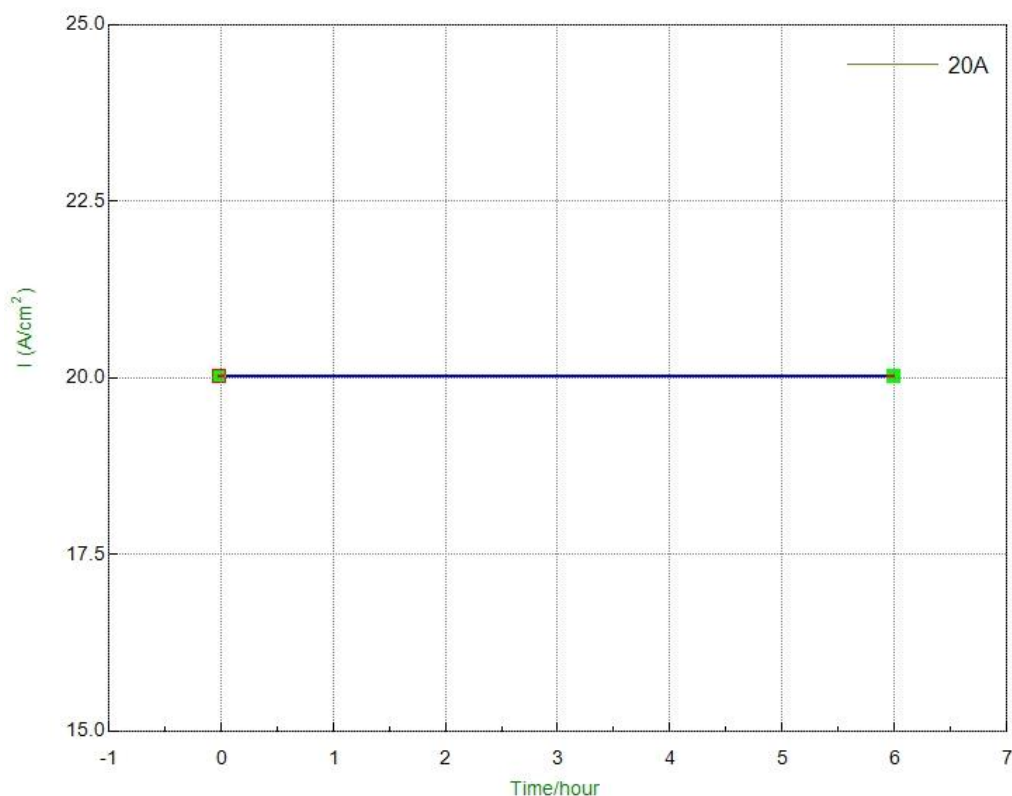


Fig. 1: Curve for galvanostatic experiment- output constant current as high as 20A



Fig. 2: Connection of CS2020B with battery core anode and cathode

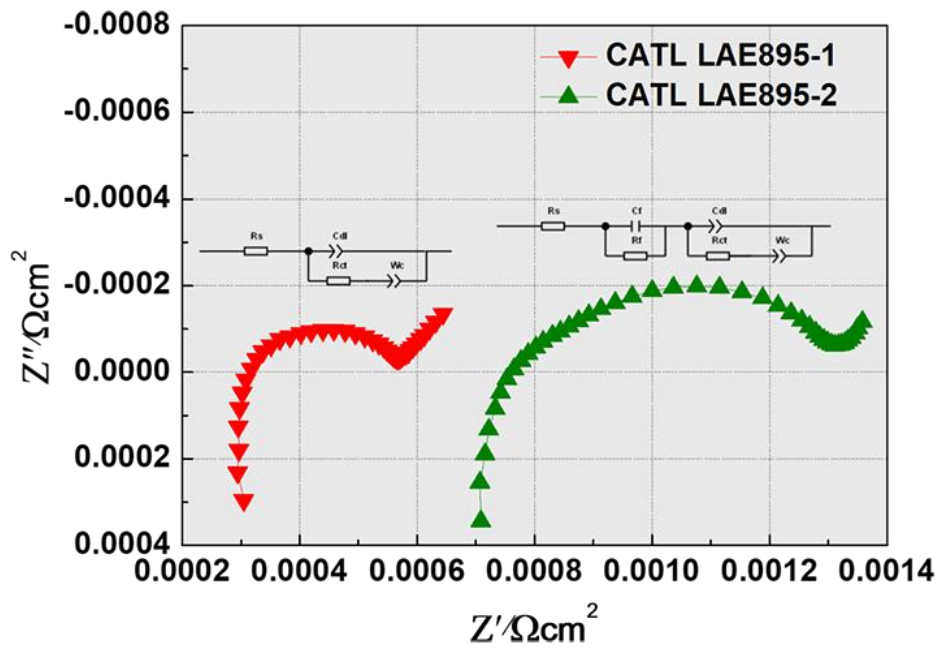


Fig. 3: EIS results of CATL-LAE895 battery core

### Key specifications (when combination of CS2020B+CS350M)

Potential range:  $\pm 10\text{V}$

Current range:  $\pm 20\text{A}$

Current range: 20A fixed range

Compliance voltage:  $\pm 13V$  (when output  $\pm 20A$  limit current, maximum output  $\pm 10V@20A$ )

EIS Frequency range:  $\cong 50KHz$

Communication: RS485

## Techniques (when combination of CS2020B+CS350M)

### Stable polarization

- Open Circuit Potential (OCP)
- Potentiostatic (I-T curve)
- Galvanostatic
- Potentiodynamic (Tafel plot)
- Galvanodynamic (DGP)

### Transient Polarization

- Multi Potential Steps
- Multi Current Steps
- Potential Stair-Step (VSTEP)
- Galvanic Stair-Step (ISTEP)

### Chrono Method

- Chronopotentiometry (CP)
- Chronoamperometry (CA)
- Chronocoulometry (CC)

### Voltammetry

- Linear Sweep Voltammetry (LSV)
- Cyclic Voltammetry (CV)

### Electrochemical Impedance Spectroscopy (EIS)

- EIS vs Frequency (IMP)
- EIS vs Time (IMPT)
- EIS vs Potential (IMPE)(Mott-Schottky)

### Battery test

- Battery Charge and Discharge
- Galvanostatic Charge and Discharge (GCD)
- Potentiostatic Charging and Discharging(PCD)
- Potentiostatic Intermittent Titration Technique(PITT)
- Galvanostatic Intermittent Titration Technique(GITT)

### Corrosion Measurements

- Cyclic polarization curve (CPP)
- Linear polarization curve (LPR)
- Electrochemical Potentiokinetic Reactivation (EPR)
- Electrochemical Noise (EN)
- Zero resistance Ammeter (ZRA)

### Extensions

Electrochemical Stripping/ Deposition

Rs measurement

## Standard supply list

### **CS350M Potentiostat /galvanostat 1 set**

Software 1 set  
Power cable \*1  
USB cable \*1  
Electrode cable \*2  
Dummy cell\*1  
Manual

### **Current Booster CS2020B - 1 set**

Power cable\*1  
Serial port connection cable \*1  
Electrode connection cable \*1  
CS2020B specialized electrode cable \*1

## After-sales Service:

1. Warranty period: 5 years. During this period, all service including repair is **TOTALLY FREE**.
2. Provide installation guidance and manual.
3. Lifetime free software upgrading (of the same model) and technical service

## Contact us

### **Wuhan Corrttest Instruments Corp., Ltd.**

Add: # 505, Jinfeng Building A, International Enterprise Center, Optics valley Ave., East lake High-tech Dev. Zone,  
Wuhan city, 430074, China

E: sales2@corrtest.com.cn

Mobile/Wechat/Whatsapp: (+86) 13469965984