

CS2020B Current Booster

CS2020B current booster can be used with model CS350 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 $\pm 20A$.

CS350 can be used alone as ordinary single channel potentiostat, and can also be used with CS2020B booster.



Key specifications (when combination of CS2020B+CS350)

Potential range: $\pm 10V$

Current range: $\pm 20A$

Current range: 20A fixed range

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

EIS Frequency range: $\leq 50KHz$.

Communication: RS485

Techniques (when combination of CS2020B+CS350)

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