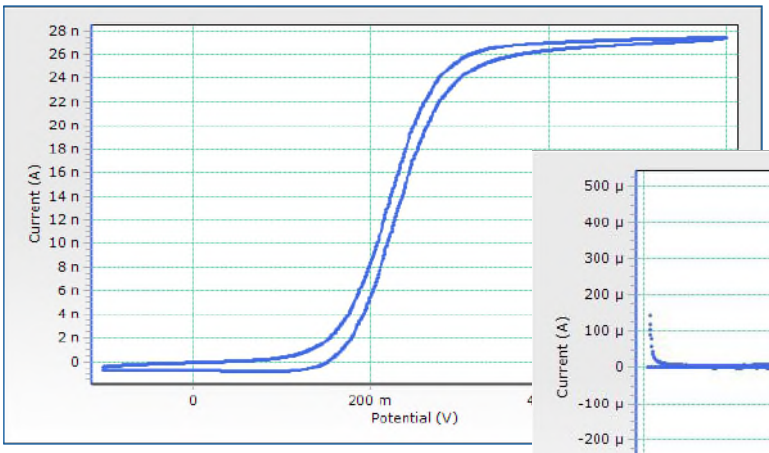
PARSTAT® MC 1000

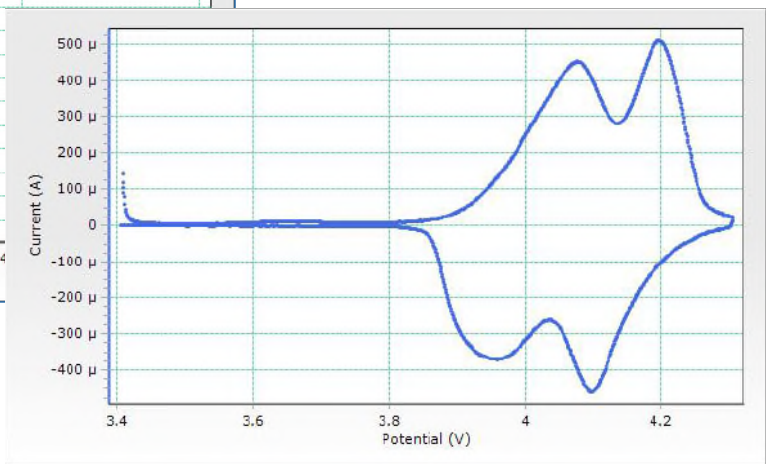
multichannel potentiostat/galvanostat

The PMC-1000 potentiostat cards are designed with the widest range of applications in mind. With the widest native current range of the PARSTAT MC line the PMC-1000 cards allow for the complete characterization of low current nano devices as well as high current batteries all with a single potentiostat card. This current range width is not available from any other manufacturer without the addition of low current amplifiers or boosters which add significant additional cost and take up valuable chassis space. The PMC-1000 cards are configured with ten (10) current ranges which allows for a full palette of applications and techniques from Corrosion to Energy Storage.

Compliance Voltage	± 12 V
Polarization Voltage	± 10 V
Standard Maximum Current	2 A
Standard Lowest Current Range	4 nA
Number of Current Ranges	10 ranges
EIS Frequency Range	1 MHz to 10 µHz
Data Acquisition Rate	500 kS/sec
PMC-1000 PSTAT Card	AC/DC
PMC-1000/DC PSTAT Card	DC only
Connectivity	USB



Cyclic Voltammogram of a Pt ultramicroelectrode in a ferrocence solution



Cyclic Votammogram of a Coin Cell (CR2032) Li-ion battery.

feature	allows for		
	Energy	Physical Echem	Corrosion
High Current 2 A Standard	Market leading high current bandwidth and accuracy	Application of large pulses and use of high surface area electrodes	Study of large sample
Low Current 4 nA Standard	Development of nanobatteries	Analysis of ultramicro and nanoelectrodes	Determination of low corrosion rates; EIS measurements on coatings

Specifications

PARSTAT MC 2000A

Compliance Voltage	±30 V
Polarization Voltage	±30 V (5 µV resolution, measured) ±6 V (46 µV resolution, measured)
Standard Maximum Current	1 A
Standard Lowest Current Range	4 nA
Number of Current Ranges	10 ranges
EIS Frequency Range	7 MHz to 10 µHz
Data Acquisition Rate	1000 kS/sec
PMC-2000 PSTAT Card	AC/DC
Auxiliary Voltage (6-WIRE)	Standard
Connectivity	USB

PARSTAT MC 1000

Compliance Voltage	±12 V
Polarization Voltage	±10 V
Standard Maximum Current	2 A
Standard Lowest Current Range	4 nA
Number of Current Ranges	10 ranges
EIS Frequency Range	1 MHz to 10 µHz
Data Acquisition Rate	500 kS/sec
PMC-1000 PSTAT Card	AC/DC
PMC-1000/DC PSTAT Card	DC only
Connectivity	USB

- Each PARSTAT MC chassis can be configured with up to ten (10) potentiostat channels of any PARSTAT MC family variety. Each potentiostat card provides a wide range of functionality as standard and installs in the same chassis. Configure your system to meet your specific requirements.
- Channels can operate simultaneously for high-throughput routine testing, individually for different experiments on distinct cells or in a complex matrix of multiple electrodes in a single test environment. Additional channels can be added on-site by the user, even while other channels are in operation.
- Running on Princeton Applied Research's popular VersaStudio software the PARSTAT MC provides a platform to expand with you as your research needs grow and evolve.

Princeton Applied Research

www.princetonappliedresearch.com

Ordering Information

Configurable Modules:

PMC CHS08A	Chassis
PMC-1000	PSTAT Channel AC/DC
PMC-2000A	PSTAT Channel AC/DC
PMC AUX01	Digital AUX cable (1 m)
PMC ALG01	Analog AUX cable (1 m) PMC-1000
PMC ALG02	Analog AUX cable (1 m) PMC-2000A

Booster Options:

PMC BOOSTER5A	Internal Booster -1 to ±6 V, ±5 A
PMC BOOSTER10A	Internal Booster -1 to ±6 V, ±10 A
234625	PMC-2000 to PMC Booster Analog Cable
234626	PMC-1000 to PMC Booster Analog Cable
234637	PMC Booster Parallel Operation Kit

User Replaceable Modules:

PMC FAN01	Fan module
PMC BPLN01	Backplane module
PMC PWR01	Power supply module
223945	PMC-1000 Cell cable (2 m)
234272	PMC-2000A Cell Cable (2 m)

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Please see our website for a complete list of our global offices and authorized agents