NOVONIX
BATTERY TECHNOLOGY SOLUTIONS

UHPC 10A Channel Module

UHPC Channel Modules - The Best in Precision

NOVONIX's industry leading Ultra-High Precision Coulometry (UHPC) Channel Modules accurately measure and control current and voltage, with high precision and low noise, providing better quality data that allow for greater confidence.

UHPC 10A / **Part Number: CMA-HEX-99-56**

SOURCE

Current

Range: 100µA, 1mA, 10mA, 100mA, 1A, 10A
Resolution: <20ppm FSR
Accuracy: 0.01% FSR
Noise: 0.002% FSR
Temperature Coefficient: 0.002% FSR over 23 ±5°C

Voltage

Range: 0V-5V
Resolution: <100µV
Accuracy: 200µV
Noise: 100µV
Temperature Coefficient: 0.002% FSR over 23 ±5°C

MEASUREMENT

Current

Resolution: <20ppm FSR
Accuracy: 0.005% FSR
Noise: 0.002% FSR
Temperature Coefficient: 0.002% FSR over 23 ±5°C

Voltage

Resolution: 1µV
Accuracy: 200µV
Noise: 100µV
Temperature Coefficient: 0.002% FSR over 23 ±5°C

TIMING

Resolution: 10ms
Measurement Frequency: 6Hz
Accuracy: 2ppm

INTEGRATED RTD TEMPERATURE SENSING

Resolution: ±0.01°C
Accuracy: ±0.5°C
Noise: ±0.05°C

TECHNICAL CONSIDERATIONS*

Dimensions WxHxD (In): 19" x 7" x 27"
Rack Space (U): 4U
Weight (lbs): 47
Number of Test Channels: 8
Bench and Rack Mountable?: Yes

Power Draw (VA): 1500VA
Voltage: DC Voltages Supplied by Power Module
Minimum Discharge Voltage: 0.005V
Required Lab Temperature Range: 18°C - 28°C
Required Lab Temperature Stability: ±1°C

Specifications calculated based on theoretical electronic values in a controlled calibration lab setting using precision resistor elements, not live cells. For best performance, we recommend pairing Channel Modules with NOVONIX Thermal Chambers, which are specifically designed to provide the temperature stability required for UHPC experiments.

Contact us to learn how UHPC technologies can improve your battery development, manufacturing, selection and more: **bts-sales@novonixgroup.com**