

# Battery Cell Impedance Measurement (EIS)

## PSM3750 FRA + BATT470m

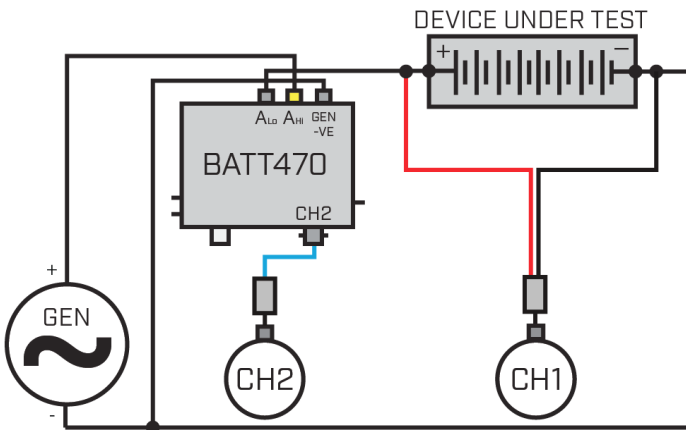
### Electrochemical Impedance Analysis System



ESF10m



BATT470m - 200



The BATT470m Electrochemical Impedance Analysis system provides a simple to use, wideband impedance analysis solution for the electrochemical market. The BATT470m, coupled with the PSM3750 Frequency Response Analyzer facilitates impedance measurement of batteries/cells up to 200V DC. With a frequency range of 100mHz to 1MHz, equivalent circuit analysis as well as wideband impedance measurement is quick and simple using PSMComm2 software. The BATT470m incorporates a DC blocking capacitor and generator protection circuitry to protect the PSM3750 output generator.

Model	Nominal Resistance	Phase Error	Continuous Current	Voltage Rating	Input Connector	Dimensions
BATT470m - 200	470mΩ ± 0.1%	0.1° / kHz	1 Arms	100V DC	4mm, BNC	187 x 187 x 67

**Shunt Nominal Inductance** < 1nH

**4mm Connectors:** AHi, ALo, GEN -ve

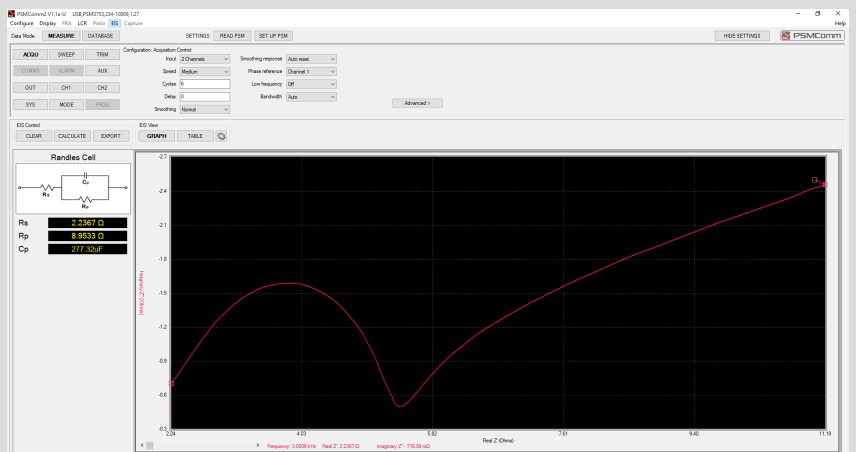
**CH2 Connector:** Safety BNC - Non isolated

(Output is at line potential therefore safety BNC to BNC leads must be used for instrument connection)

**Protection Rating:** Up to 200V DC

**EIS System Consists of:**

PSM3750+BATT470m-200 (Inc. 2 x ESF10m)



PSMComm2 - EIS Mode (Randles Cell equivalent circuit modelling)