Battery Cell Impedance Measurement (EIS)

PSM3750 FRA + BATT470m

Electrochemical Impedance Analysis System

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.

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

**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)