**PH-3A POWER CELL**
- Fast Response Power Monitor
- Ideal for machine tool applications
- Monitor fast load changes

**PH-1000 POWER CELL**
- Large Capacity for Big Loads
- Power cells are stand alone transducers
- Analog output proportional to power (horsepower or watts)
- Self-contained. No current or voltage transformers
- Versatile. Work on both fixed and variable frequency power supplies

**CHANGING CAPACITY OF THE POWER CELL**
The capacity for each of the Hall Sensors is set with 8 pin resistor networks. These voltage and current networks provide a full-scale calibration point. These are easily changed in the field. This lets you match the Power Cell to the load. Cost: $10

**FAST RESPONSE PH-3A POWER CELL**
- Ideal for machine tool applications
- Monitor fast load changes

**OPTIONAL RESPONSE ADJUSTMENT**
The Power Cell is designed to have very fast response. In some cases, like agitator and mixer applications, you will probably want to smooth the signal using the optional response adjustment on the Power Cell.

An analog load meter (since it has a slow response) also does a nice job of averaging the signal.

In the three phase Power Cell there are:
- Three current networks
- One voltage network
- One function network for the 0-5 Volt and 0-10 Volt outputs
- An additional circuit board for the 4-20 MA and the 0-1 MA outputs

**PH-1000 POWER CELL FOR LARGE LOADS**
- Up to 1,000HP
- 1 ¾” windows

**NORMAL RESPONSE**

**SLOW RESPONSE**
(Average Power)
**FOR THREE PHASE POWER - FIXED OR VARIABLE FREQUENCY**

**PH-3A**

Full Scale Capacity  
460 Volt Network

<table>
<thead>
<tr>
<th>Model</th>
<th>Full Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH-3A-HHG</td>
<td>2HP</td>
</tr>
<tr>
<td>PH-3A-HG</td>
<td>4.5HP</td>
</tr>
<tr>
<td>PH-3A-10</td>
<td>10HP</td>
</tr>
<tr>
<td>PH-3A-15</td>
<td>14HP</td>
</tr>
<tr>
<td>PH-3A-20</td>
<td>21HP</td>
</tr>
<tr>
<td>PH-3A-30</td>
<td>32HP</td>
</tr>
<tr>
<td>PH-3A-40</td>
<td>43HP</td>
</tr>
<tr>
<td>PH-3A-50</td>
<td>53HP</td>
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<tr>
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<td>64HP</td>
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<tr>
<td>PH-3A-70</td>
<td>75HP</td>
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<td>PH-3A-80</td>
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<td>PH-3A-90</td>
<td>96HP</td>
</tr>
<tr>
<td>PH-3A-100</td>
<td>107HP</td>
</tr>
<tr>
<td>PH-3A-350-140</td>
<td>149HP</td>
</tr>
<tr>
<td>PH-1000-100</td>
<td>102HP</td>
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<tr>
<td>PH-1000-200</td>
<td>213HP</td>
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<td>PH-1000-600</td>
<td>640HP</td>
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<td>PH-1000-700</td>
<td>747HP</td>
</tr>
<tr>
<td>PH-1000-800</td>
<td>853HP</td>
</tr>
<tr>
<td>PH-1000-900</td>
<td>960HP</td>
</tr>
<tr>
<td>PH-1000-1000</td>
<td>1067HP</td>
</tr>
</tbody>
</table>

**PH-1000**

Three Phase Power to 1000HP

**FULL SCALE CAPACITY**

**460 Volt Network**

\[ KW = (HP)(0.746) \]

**For Voltage Networks Other than 460 Volt Multiply Full Scale HP by:**

<table>
<thead>
<tr>
<th>Volts</th>
<th>HP Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>115</td>
<td>.25</td>
</tr>
<tr>
<td>185</td>
<td>.4</td>
</tr>
<tr>
<td>230</td>
<td>.5</td>
</tr>
<tr>
<td>255</td>
<td>.55</td>
</tr>
<tr>
<td>380</td>
<td>.83</td>
</tr>
<tr>
<td>415</td>
<td>.9</td>
</tr>
<tr>
<td>580</td>
<td>1.26</td>
</tr>
</tbody>
</table>

**For Small Loads**

The capacity can be reduced by taking additional “turns” with the wire through each hole for each phase.

*Example:* A 10HP unit is reduced to 5HP by taking two turns through each hole. It is reduced to 3.33HP with three turns, etc.

**Outputs Available**

0-1 MA, 4-20 MA, 0-5 Volts, 0-10 Volts  
The output is powered by the Power Cell

**To Order:** Specify Model Number, (Voltage Network if not 460 Volt) and Output

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**NOTE:** The Current Networks do not limit the current. They provide the Full Scale Power calibration point (HP or KW). The Power Cell is not damaged by overloads.

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**SPECIFICATIONS FOR ALL POWER CELLS**

**FREQUENCY**

- DC to 1 KHz

**RESPONSE**

- 15 Milliseconds (.015 seconds)
- .060 seconds to 1 second with optional response adjustment

**ACCURACY/REPEATABILITY**

- .5%

**IMPEDANCE**

- For 10 Volt output: 2K ohm minimum connected impedance
- For 4-20 MA output: 500 ohm maximum connected impedance
- High compliance units available

**TEMPERATURE**

- 55˚C maximum

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**DIMENSIONS**

**PH-3A POWER CELLS**

- 1 ¼”
- 4 ½”
- 9 ¼”

Maximum conductor ¼” with grommets removed

Mounting: (2) #10 screws, 8 ½” on center

**PH-1000 POWER CELLS**

- 1 ¾”
- 5 ¾”
- 13 ¾”

Maximum conductor 1 ¾”

Mounting: (4) ¼” screws, 12 ¼” x 1 ½” on centers

Weight: 12 pounds

**EXTERNAL TRANSFORMER**

(provided with each POWER CELL)

- 1 ¾”
- 2 ¼”

Mounting: (2) #10 screws, 2” on center

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Complete installation information at loadcontrols.com in Products section