POWER SYSTEMS CAPABILITIES

SOLAR ARRAYS
We offer configurations ranging from simple body mounted panels to multi-wing deployed arrays with the option to gimbal up to two arrays. Our standard arrays include 29.5% efficient cells and carbon fiber substrates, with custom options available.

POWER CONTROL
Functionality is included for solar array input power, on-board or external battery, charge control (Peak Power or Direct Energy), power regulation and distribution, and data acquisition. Additional features include: charge and distribution fault protection, modular architecture for storage and generation capability, and heater controllers for spacecraft use.
**POWER SYSTEMS CAPABILITIES**

### BCT 6U-V Double Wing Solar Array
- 48W - 96W per 6U

### BCT 6U-H Triple Wing Solar Array
- 80W - 118W per 6U

### BCT 3U Double Wing Solar Array
- 28W - 42W per 3U

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**NOMINAL PARAMETERS**

<table>
<thead>
<tr>
<th></th>
<th>3U</th>
<th>6U/12U</th>
<th>MICRO SAT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Solar Array Power (W)</strong></td>
<td>28 - 42</td>
<td>48 - 118</td>
<td>192 - 384</td>
</tr>
<tr>
<td><strong>Bus Voltage (VDC)</strong></td>
<td>6.18</td>
<td>19.2 or 38.4</td>
<td>38.4</td>
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**FEATURES INCLUDE:**

- Solar Arrays – 30% efficient, carbon fiber substrate, multiple deployment configurations, array articulation
- Release Mechanism – BCT-built resettable release mechanism, up to 4 deployments with one actuation
- Solar Array Drive Assemblies – BCT-built solutions for 3U, 6U, 12U and Microsat spacecraft