Xtreme/PSU-UC

Connect Tech's Xtreme/PSU-UC is a high efficiency, high powered PC/104 form factor power supply featuring a wide input voltage range that accepts +8 to +36V DC, and provides 115W total output power with +5V, +12V and +5V Standby output voltages.

Xtreme/PSU-UC features on-board Ultracapacitors to provide uninterrupted UPS backup capability. Because it uses Ultracapacitors in the place of batteries the Xtreme/PSU-UC can provide instant short-term power backup in the event of a power loss or interruption, and be fully charged and ready to provide backup power again within seconds. The Xtreme/PSU-UPS uses rugged components and can operate in the industrial temperature range of -40°C to +85°C / -40°F to +185°F.

Xtreme/PSU-UC can be used in combination with Connect Tech's stackable CPU and expansion boards for a total design solution, and is ideal for use in a broad range of rugged military and industrial applications.

### FEATURES

- Ultracapacitor backup for uninterrupted power supply
- 115W total output power, +5V, +12V and +5V Standby
- Fully meets PC/104 component height requirements
- Uses latest generation highest efficiency power controllers, inductors, and MOSFETs

### Specifications

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>PC/104 Standard 3.55” (90mm) x 3.775” (96mm)</th>
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</thead>
<tbody>
<tr>
<td>Input</td>
<td>- Power Requirements: +8V to +36V DC</td>
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<tr>
<td></td>
<td>- Protection: Reverse polarity protection, transient voltage suppression and series fuse</td>
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<tr>
<td>Output</td>
<td>- Total Power: 115W</td>
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<tr>
<td></td>
<td>- +5V: 10A maximum continuous for full -40 to +85 range</td>
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<tr>
<td></td>
<td>- +12V: 5A maximum continuous for full -40 to +85 range</td>
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<tr>
<td></td>
<td>- +5V Standby: 1A maximum continuous for full -40 to +85 range</td>
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<tr>
<td></td>
<td>- Regulation: Less than 1%</td>
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<tr>
<td></td>
<td>- Protection: Overload protection and transient voltage suppression</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +85°C (-40°F to 185°F)</td>
</tr>
<tr>
<td>Connectors</td>
<td>Output: 3.5mm pitch standard terminal block header and mating plug</td>
</tr>
<tr>
<td></td>
<td>Input: 5mm pitch standard terminal block header and mating plug</td>
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<tr>
<td>Ultra Capacitors</td>
<td>11x 10F Ultracapacitors in series – 0.909 farads</td>
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<tr>
<td></td>
<td>Energy Capacity - 262 Joules</td>
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<tr>
<td></td>
<td>Expansion capabilities for the addition of external Ultracapacitor modules</td>
</tr>
<tr>
<td>Communication Interfaces</td>
<td>RS-232 and USB interfaces to control delayed startup/shutdown, relay board temperature data</td>
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<tr>
<td>Technical Support</td>
<td>Free technical support</td>
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</tbody>
</table>

Specifications subject to change without notice.

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