Tired of replacing batteries or worrying about temporary power outages in data centers, manufacturing, and in health facilities? In these environments, the slightest power interruption can have major consequences. A reliable power supply should not be a question. Uptime is priceless.

Maxwell Technologies’ ultracapacitor-based UPS module provides reliable energy storage for short-duration bridge power and backup power. With an operating life of up to 14 years* and requiring minimal maintenance, the Maxwell solution is also an optimal energy source for power quality improvement for online UPS. The Maxwell UPS module can also supplement or replace lead-acid batteries, thereby reducing unplanned outages due to battery failure.

Features and Benefits

- Minimal maintenance
- Up to 14 year DC life*
- Bridge power energy storage
- High power density
- No lead, no acid
- UL registered

Maxwell’s UL-recognized 56 V module is ideal for use in the UPS (uninterruptible power supply) application.

*Results may vary. Additional terms and conditions, including the limited warranty, apply at the time of purchase. See the warranty details and datasheet for applicable operating and use requirements.
Ultracapacitors

Ultracapacitors are energy storage devices that provide burst power for applications requiring high power functions. Unlike batteries, which store energy via chemical reaction, ultracapacitors store energy by electrostatically (physically) separating positive and negative charges. The ultracapacitor’s electrostatic energy storage permits the device to be rapidly charged and fully discharged for hundreds of thousands of cycles, as compared to batteries, which typically perform only hundreds or thousands of charge/discharge cycles. Ultracapacitors are a reliable, energy-efficient and cost-effective solution for storing energy.

Background

Maxwell Technologies is the global leader in ultracapacitor technology and is changing the way energy is used and stored. Our ultracapacitor products offer power and efficiency to a variety of applications, including consumer electronics, hybrid vehicles and renewable energy sources. Our proprietary electrode technology and global manufacturing facilities allow us to deliver unsurpassed value to our customers, while tailoring performance to specific applications.

Specifications

<table>
<thead>
<tr>
<th>56 V Module</th>
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<tbody>
<tr>
<td>Capacitance</td>
</tr>
<tr>
<td>Voltage</td>
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<tr>
<td>ESR&lt;sub&gt;DC&lt;/sub&gt;</td>
</tr>
<tr>
<td>Leakage Current</td>
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<tr>
<td>E&lt;sub&gt;max&lt;/sub&gt;</td>
</tr>
<tr>
<td>P&lt;sub&gt;max&lt;/sub&gt;</td>
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</tbody>
</table>

Options: Overvoltage monitor output

Product sizes not to scale.

*Results may vary. Additional terms and conditions, including the limited warranty, apply at the time of purchase. See the warranty details and datasheet for applicable operating and use requirements.

Product dimensions are for reference only unless otherwise identified. Product dimensions and specifications may change without notice.

Please contact Maxwell Technologies directly for any technical specifications critical to application. All products featured on this datasheet are covered by the following U.S. patents and their respective foreign counterparts: 6643119, 7295423, 7342770, 7352558, 7384433, 7440258, 7492571, 7508651, 7791860, 7791861, 7859826, 7883553, 7935155, 8072734, 8098481, 8279580 and patents pending.

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