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New 193 PUR-SI Solar Series of Snap-In Power Aluminum Capacitors

Product Benefits:

- Rated voltage of 500 V at 50 °C
 - Useful life of 5,000 hours (no ripple current applied)
- Category voltage of 450 V at 105 °C
 - Useful life of 6,000 hours
- Rated ripple current up to 2.52 A at + 105 °C and 100 Hz
- Available in five case sizes ranging from 35 mm by 30 mm to 35 mm by 60 mm



Market Applications:

- Smoothing, filtering, and energy storage in pulsed power applications
- End products include solar PV inverters, industrial motor controls, and power supplies

The News:

Vishay Intertechnology Introduces Snap-in Power Aluminum Capacitors for Solar Applications With 500 V Rated Voltage and Ripple Current to 2.52 A

Vishay Intertechnology, Inc. (NYSE: VSH) announces a new series of snap-in power aluminum capacitors targeted at solar applications with a rated voltage of 500 V at 50 °C, a category voltage of 450 V at 105 °C, and rated ripple current up to 2.52 A at + 105 °C and 100 Hz.

- Polarized aluminum electrolytic capacitors with a non-solid electrolyte
- Features a cylindrical aluminum case with a pressure relief valve, insulated with a blue sleeve
- Long useful life

Key Device Specifications:

Case size (D x L in mm)	35 x 30 to 35 x 60
Capacitance range at 500 V	220 μ F to 560 μ F
Tolerance	\pm 20 %
Ripple current at 100 Hz and + 105 °C	1.35 A to 2.52 A
Rated voltage	500 V
Category voltage	450 V
Rated temperature range	- 40 °C to + 50 °C
Category temperature range	- 40 °C to + 105 °C
Useful life at 500 V, + 50 °C	5,000 hours
Useful life at 450 V, + 105 °C	6,000 hours



New Product Info



Product Group: Vishay BCcomponents, Aluminum Capacitors / **September 2012**

Shelf life at 0 V, + 105 °C	1,000 hours
Max. ESR at 100 Hz	350 mΩ to 900 mΩ
Max. impedance at 10 kHz	250 mΩ to 600 mΩ
Sectional specification	IEC 60384-4/EN130300
Climatic category IEC 60068	40/105/56

The Perspective:

In solar applications, the highest voltage is present under no load conditions. At a rated voltage of 500 V and no ripple current applied, Vishay's new 193 PUR-SI Solar series of snap-in power aluminum capacitors features a maximum operating temperature to + 50 °C and useful life of 5,000 hours. At 450 V, the maximum temperature can be extended to + 105 °C and the useful life is 6,000 hours. In addition, the devices offer rated ripple current up to 2.52 A at + 105 °C and 100 Hz.

Availability: Samples and production quantities of the 193 PUR-SI Solar series capacitors are available now, with lead times of 8 to 14 weeks.

To access the product datasheet on the Vishay Web site, go to <http://www.vishay.com/doc?28407> (193 PUR-SI Solar)

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