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NEW PRODUCT INFORMATION

Product Group: Vishay BCcomponents, Aluminum Capacitors / **Aug** 2022

Lowering the Cost of Solar PV Inverters, Upgraded 193 PUR-SI Solar Series of Snap-in Power Aluminum Capacitors Feature Higher Rated Voltage to 570 V at +60 °C, Category Voltage of 475 V at +105 °C, and Open-Circuit Voltage Up to 600 V

Product Benefits:

- Rated voltage of 570 V
  - Maximum operating temperature to +60 °C and endurance of 6000 hours (no ripple current applied)
- Category voltage of 475 V
  - Maximum operating temperature to +105 °C and long useful life of 6000 hours
- Specified for higher voltage, up to 600 V at specific operation conditions
- High rated ripple current up to 2.46 A at + 105 °C and 100 Hz
- Feature a cylindrical aluminum case with a pressure relief valve, insulated with a blue sleeve
- Available in five case sizes ranging from 35 mm by 30 mm to 35 mm by 60 mm
- Polarized aluminum electrolytic capacitors with a non-solid electrolyte
- 3-pin option available for keyed polarity
- RoHS-compliant



Market Applications:

- DC-Link buffering and filtering applications
- End products include solar PV inverters, industrial motor controls, and power supplies

The News:

Vishay Intertechnology announces that it has upgraded the Vishay BCcomponents 193 PUR-SI Solar series of snap-in power aluminum capacitors with a higher rated voltage of 570 V and a category voltage of 475 V.

- With their ability to fulfill the open-circuit voltage condition up to 600 V, 193 PUR-SI Solar series devices lower the overall cost of solar PV inverters by reducing the number of electrolytic capacitors required, allowing designers to use one capacitor for string input voltages of 600 V and two for 1200 V

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The Key Specifications:

Case size (D x L in mm)	35 x 30 to 35 x 60
Capacitance range	220 µF to 560 µF
Tolerance	± 20 %
Rated voltage	570 V
Rated temperature range	-40 °C to +60 °C
Endurance at rated voltage and 60 °C, no ripple applied	6000 h
Category voltage	475 V
Category temperature range	-40 °C to +105 °C
Useful life at category voltage and +105 °C, ripple applied	6000 h
Operation up to 600 V and +60 °C, no ripple applied	1000 h
Ripple current at 100 Hz and + 105 °C	1.32 A to 2.46 A
Max. ESR at 100 Hz	250 mΩ to 600 mΩ
Max. impedance at 10 kHz	150 mΩ to 450 mΩ
Sectional specification	IEC 60384-4 / EN130300
Climatic category IEC 60068	40 / 105 / 56

Availability:
Samples and low quantity demands are available at catalog houses. Production quantities of the upgraded 193 PUR-SI Solar series capacitors are available now, with lead times of 19 to 21 weeks.

To access the product datasheet on the Vishay Website, go to
http://www.vishay.com/ppg?28407 (193 PUR-SI Solar)

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