

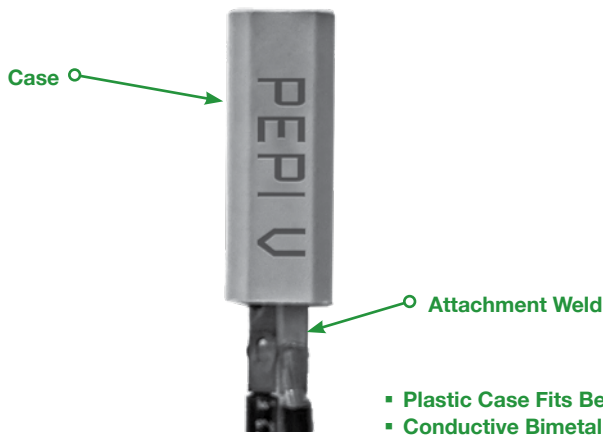


Snap action thermal protectors specially designed for battery pack applications.

MODEL V SERIES



PEPI® Model V thermal protectors are the only such devices specially designed to fit snugly between even the smallest battery pack cells. Their low internal resistance also draws minimal power from battery packs. These snap-action devices offer both overcharge and short-circuit protection in rechargeable battery packs. They are housed in an electrically isolated plastic case.



All models in this series are normally in the closed position allowing electricity to flow through the circuit. When the temperature exceeds a preset high limit, the bimetal element opens to break the circuit. Circuit is restored when temperature drops below high limit level.

Feature	Benefit
Low Internal Resistance	Draws minimal power in order to improve battery pack life and performance.
Snap Action	Quick break / quick make switching action offers precision high level limiting control.
Automatically resets	When temperature cools to safe temperature, device resets to maintain productivity.
Case electrically isolated from circuit	Prevents premature breaking of circuit.
Gold diffused, fine silver contacts	Improve reliability in low voltage / low current applications.
100% factory testing	Ensures performance reliability.
Preset calibration temperatures	Maximizes accuracy. Calibration cannot be reset in field. Temperature differential between opening and closing may vary from 5°C to 35°C depending on the no load calibration temperature.
Factory installed lead wires or terminals	Simplifies installation. Please contact us for available options.

We come through when the heat is on®



Pepi®

Portage Electric Products, Inc.

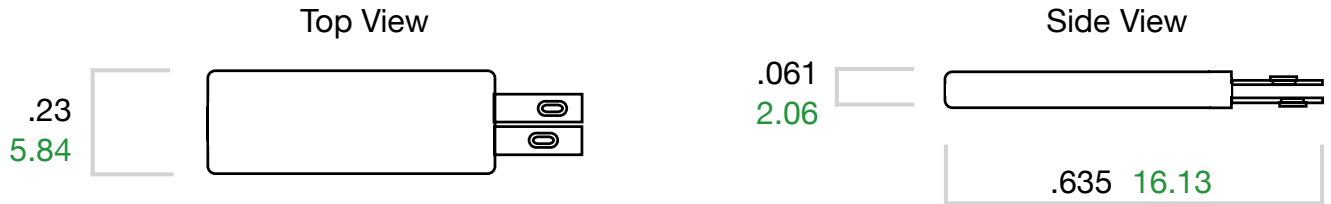
MODEL V SERIES

Customization Options	Effect
Lead wire configurations	Match application needs without increasing costs.
Select calibration temperature	Match application needs.
Change bimetal blade	Match application resistivity needs.

MODEL V



Thermal Protector for Rechargeable Battery Packs. Stainless Steel/Nickel-Plated bimetal has low load bearing characteristics, so is better used on lower current applications.



METRIC DIMENSIONS ARE IN MM (SHOWN IN GREEN)

Contact Ratings	Calibration Temperature Range
10 AMPS / 12 VDC 10,000 cycles	Nominal Calibration Temperatures 50°C - 100°C
5 AMPS / 24 VDC 10,000 cycles	Standard Tolerance ± 5°C
50 AMPS / 12 VDC 5,000 cycles	Reset Temperature Typically 15°-45°C below opening temperature
100 AMPS / 12 VDC 1,000 cycles	
150 AMPS / 12 VDC 500 cycles	

Applications

Almost any lower current application using a cell-based resettable battery pack.

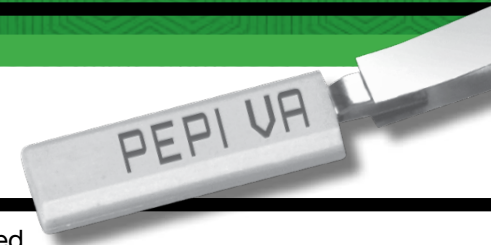
UL Recognitions (Visit www.pepiusa.info/ul-recognitions for full details)

File: E37151 - Temperature Indicating and Regulating Equipment
 • Direct Current Contact Ratings

MODEL V SERIES

MODEL VA

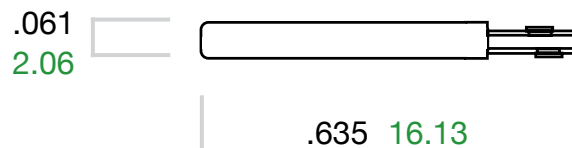
Thermal Protector for Rechargeable Battery Packs. Nickel-Plated / Nickel-Plated bimetal has lower resistivity so can handle higher current applications.



Top View



Side View



METRIC DIMENSIONS ARE IN MM (SHOWN IN GREEN)

Contact Ratings

10 AMPS / 12 VDC 10,000 cycles

5 AMPS / 24 VDC 10,000 cycles

50 AMPS / 12 VDC 5,000 cycles

100 AMPS / 12 VDC 1,000 cycles

150 AMPS / 12 VDC 500 cycles

Calibration Temperature Range

Nominal Calibration Temperatures 50°C - 100°C

Standard Tolerance $\pm 5^\circ\text{C}$

Reset Temperature Typically 15°-45°C below opening temperature

Applications

Almost any higher current application using a cell-based resettable battery pack.

UL Recognitions (Visit www.pepiusa.info/ul-recognitions for full details)

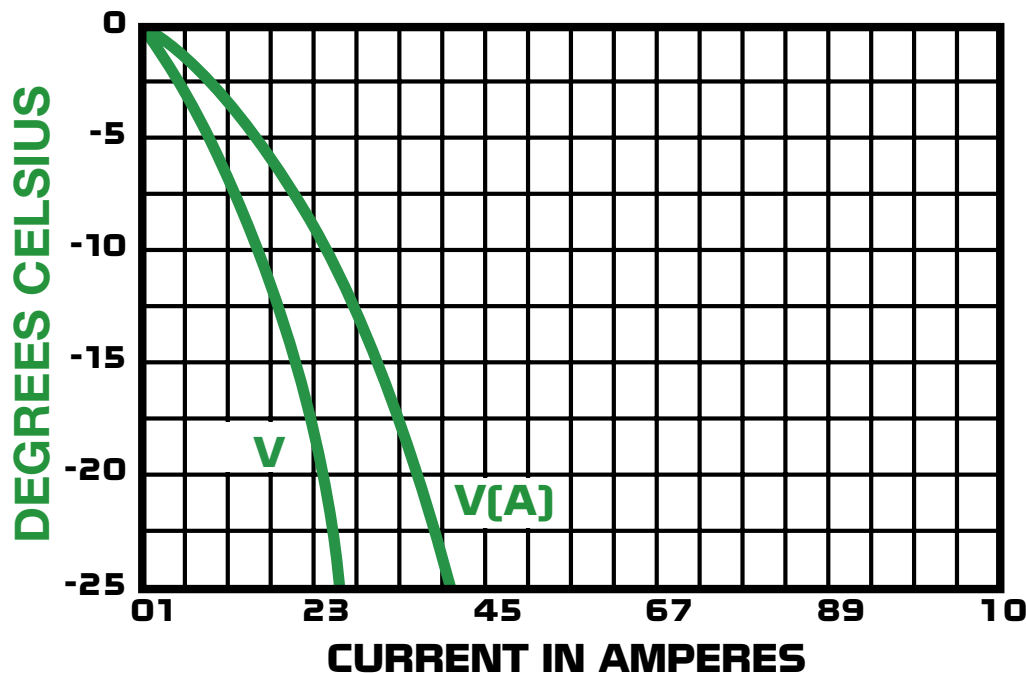
File: E37151 - Temperature Indicating and Regulating Equipment

- Direct Current Contact Ratings

MODEL V SERIES

PEPI® V SERIES FAMILY OF THERMAL CONTROLS: REAL WORLD PERFORMANCE

V SERIES DERATING CURVES



These are only representative curves based on controlled laboratory testing. Results may vary in actual applications.

Portage Electric Products, Inc. (PEPI) The Thermal Control Specialists

This sheet contains basic technical and operating characteristic data for our Model V Thermal Controls.

Should you have any questions regarding the use of this device in your application, please feel free to contact us for additional technical information or assistance.

Since 1963 PEPI has been world-wide supplier of bimetallic thermostats and thermal protectors. Today, we produce almost every type of creep-action and snap-action device used in a wide range of OEM applications