



## HELLROARING TECHNOLOGIES, INC.

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### Transient Voltage Suppressor module:

The Hellroaring Transient Voltage Suppressor module for Solid State Drive (SSD) systems have the following specifications. They are fabricated with multiple TVS diodes. For bi-directional switching such as battery power on both sides, or an H-Bridge output, you will need a bi-directional version. Add a "B" to the end of the part number. It functions the same in either polarity. These are also available with custom voltage and peak power configurations. Duty cycle of transients must be limited to prevent overheating.

TVS Model	TVS-510V-90k	TVS-350VB-75k	TVS-765VB-45K
Peak Pulse Power (10 us rise by 1000 us decay)	90 KW	75 KW	45 KW
Max Forward Surge Rating 8.3mS half sine	1000 Amps	N/A	N/A
Max Peak Reverse Pulse Current at clamping voltage	108 Amps	132 Amps	36 Amps
Reverse Standoff Voltage	510 Volts	350 Volts	765 Volts
Breakdown Voltage Minimum @ 15 mA	566 Volts	385 Volts	850 Volts
Breakdown Voltage Max @ 15 mA	624 Volts	430 Volts	936 Volts
Max clamping voltage @ peak current	822 Volts	565 Volts	1233 Volts @ 36A
Maximum Leakage Current @ Reverse Standoff Voltage	30 uAmps	30 uAmps	10 uAmps
Response time	$1 \times 10^{-12}$ S	$1 \times 10^{-12}$ S	$1 \times 10^{-12}$ S
Directional	Uni-Directional	Bi-Directional	Bi-directional

