

Solid-State Relays and Switches

is 99.9% efficient current.

Contact us and find out if **POWER-GATE™** is the solution you've been searching for.

Technical Specifications

Applications:	Military, aeronautic, automotive, marine, industrial machinery, photovoltaic, fleet utility.
DC Current Capacity:	Up to 500 amperes continuous at rated voltage 8 to 32 VDC (see figure 1)
ON-Resistance:	50 to 100 millionths of an Ohm. This is equivalent to two to four inches of 4AWG welding cable, or a little over a foot of 4/0 (quadruple-ought) cable.
Control Voltage:	Factory configured 5 to 32 VDC required to activate switch. Input resistance for control voltage is 33k ohms.
Turn-on Time:	Less than one millisecond (see figure 2).
Turn-off Time:	Less than twenty milliseconds (see figure 3).
Temperature Rise:	< 25 degrees C above ambient temperature.
Leakage Current:	Leakage current to the load (relay off) is < 1 mA, typically <1uA.
In-Rush Current:	Four times rated continuous current decaying to the rated current level within fifteen milliseconds.
Over-Voltage:	Supply voltage should not exceed 32 VDC for more than one minute.
Under-Voltage:	The device will shut down when the supply voltage drops below 7.75 volts.
Transient Voltages:	When transient voltage spikes reach 38 volts, the device will turn on until the spike drops below 34 volts.
Over-Current:	Current greater than the continuous rating for 150 milliseconds may cause the device to latch off, requiring the control voltage to be toggled off and back on to restore operation.
Efficiency Rating:	99.9 % at full current.
Weight:	18.56 oz (0.526kg)
Enclosure:	Stainless steel shell with full epoxy encapsulation.
Terminals:	3/16" x 1.5" silver-plated copper buss with 5/16-20 x 5/8" hex-head bolt/washer/nut.
Other Information:	Device must be grounded. Operating temperature -20°C to +70°C. Remote switch w/ wire harness or built-in micro-switch. Remote LED status display (optional). No heat-sinking required. Water-proof, shock-proof, vibration-proof, bomb-proof. Custom configurations welcome. Made in the U.S.A.

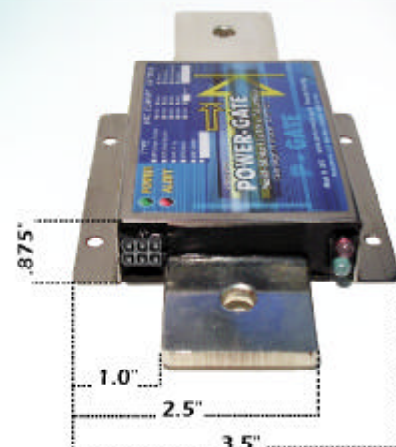


Figure 1

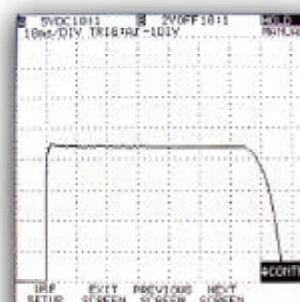


Figure 2

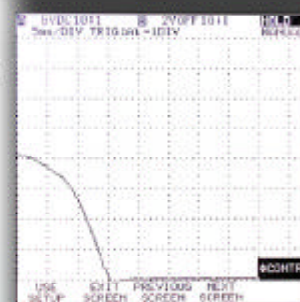


Figure 3

