Ambulance Module Disconnect Switch

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Key Features

- 100% Solid-State Construction
- 275 Amp Capacity with Over Current Shutdown
- User-Adjustable Power Shut-Off Timer
- Multiple Internal Operating Modes
- 800 Amp Surge Capability
- · Low Profile Design
- Over Temperature Shutdown
- Made in the USA right in our own facility
- Terminal Rubber Boot Option for Protection

Terminal Rubber Boot Option

The ultra reliable solid state alternative to mechanical solenoid contactors.

Technical Description

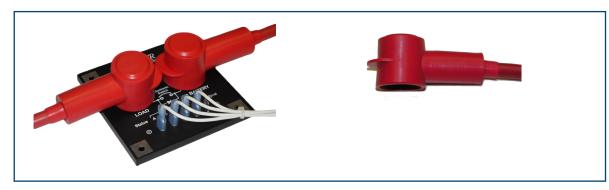
The InPower Model SSC42-275 Series Module Power Disconnect Switch is designed for use in ambulances to disconnect battery power from module loads such as emergency lights, patient compartment lights, flood lights, loading lights, etc. The module disconnect switch includes a high current solid state contactor (power switch), a current sensor, and a micro-processor control/monitor circuit. It has an over current shutdown rating of 275 amps with a surge rating of 800 amps, and provides automatic shutdown for over current, high temperature and loss of ground conditions. Three standard models are available, listed below, though this product can be customized to meet specific requirements.

SSC42-275 Series

Five control inputs allow for a variety of different application configurations, including three time delayed power shut-off modes. Input A allows control of the power switch from a +12 volt switch without a timed shut-off function. Input B and Input C provide an adjustable off-delay power shut-off (module power is shut off after the timer has expired). Input B is activated from a +12 volt signal, and Input C from a ground signal. The time delay period can be set by the user via a potentiometer (screwdriver adjustment). Input D allows mode control from one, two or three momentary ground signal pulses, providing a power switch turn-on for 5, 10 or 15 minutes, respectively. Input E allows for a momentary ground input that will cancel (reset to zero) all timer shut-off modes.

An amber LED indicator is provided to display the power switch status. It will be illuminated anytime the power switch is on, and it will flash to indicate if the power switch is on and in a timed shut-off mode (timer running). The LED will flash at a high rate to indicate a fault shut down condition.

Two 3/8 - 16 threaded studs with brass contact pads provide the DC power terminations. Optional terminal boots are available that will cover the power terminals. These terminal boots are flexible PVC (UL94-V2 rated) and offer protection from both the environment and accidental shorting. The five control inputs are 0.25 inch male Faston blade terminals, and the four mounting hole pads provide the required connection to ground. The module is sealed to protect it from the environment.

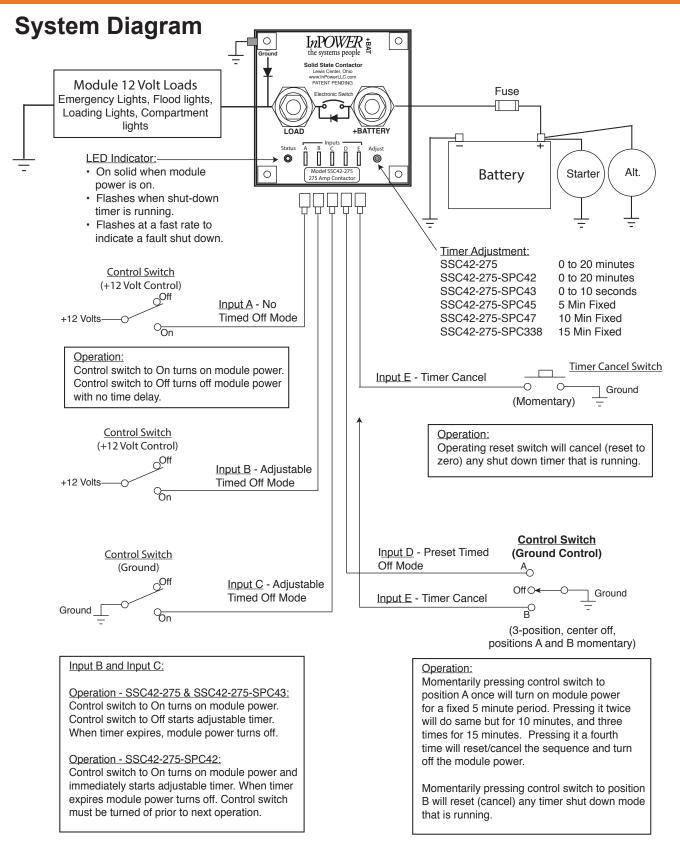




Product Data Sheet PDS-48G

Ambulance Module Disconnect Switch

SSC42-275 Series





Product Data Sheet PDS-48G

Page 2

+7.5 Vdc (150 milliseconds)

275 Amps (750 milliseconds)

TB28-3 for 2 to 2/0 gage cable.

800 Amps

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SSC42-275 Series

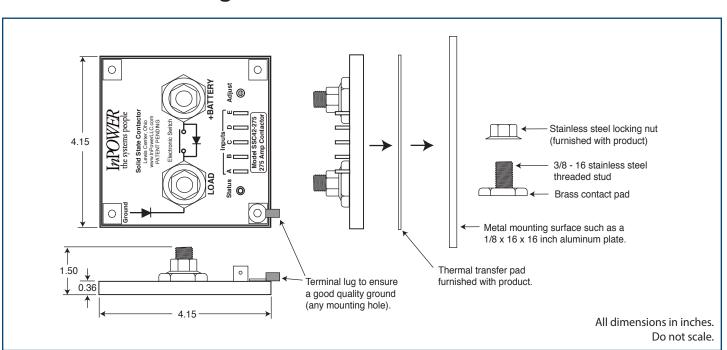
Specifications

Under voltage shut-off: Curernt rating: Current trip rating: Surge current rating: On-resistance at maximum current: Turn-on delay: Turn-off delay: Control Input: Connector type: Control voltage: Input A: Input B: Input C: Input D: Input E: Weight: Dimensions: Power terminals: Mounting surface:

Terminal boot covers:

Mechanical Drawing

660 micro ohms 10 milliseconds 10 milliseconds 0.250 inch male Faston blade terminal (5 total) >2.6 Vdc to activate >2.6 Vdc to activate <2.1 Vdc to activate <2.1 Vdc to activate <2.1 Vdc to activate 0.30 lbs (0.136 kg) 4.15 x 4.15 x 1.50 Inches Two stainless steel 3/8 - 16 threaded studs with stainless steel locking nuts. For optimal performance a metal mounting surface should be provided such as a 1/8 x 16 x 16 inch aluminum plate. Order terminal boots to match cable size (not supplied with product). InPower Model TB28-2 for 8 to 2 gauge cable,





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Product Data Sheet PDS-48G