

HD2VCM-01

Dual Channel 12V 35 Amp Solid State Latching Switches



Technical Description

InPower's HD2VCM-01 is a Dual Channel 12V 35 Amp Solid State Latching Switches are designed to offer precise control for two independent +12V 35 Amp feeds, allowing seamless switching of loads. This versatile controller is equipped with a microprocessor, enabling it to perform various programmable functions based on customer-specified parameters.

The HD2VCM-01 has 3 inputs and 2 Outputs (two individually controlled 35Amp 12V power channels) where the Control Inputs are Transition responsive. IN1 and IN3 Control Output 1 and IN2 Controls OUT2

"↑+12" means Transition to 12V will trigger change on Output

"↓GND" means Transition to GND will trigger change on Output

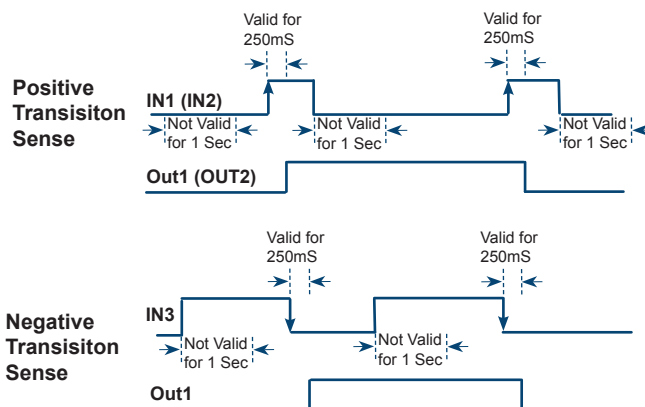
It should be noted that time transition level must be valid for at least 250ms for the transition on IN1, IN2, or IN3 to be recognized.

Additionally, the Input must **not be valid for at least 1 second** before a new transition is recognized.

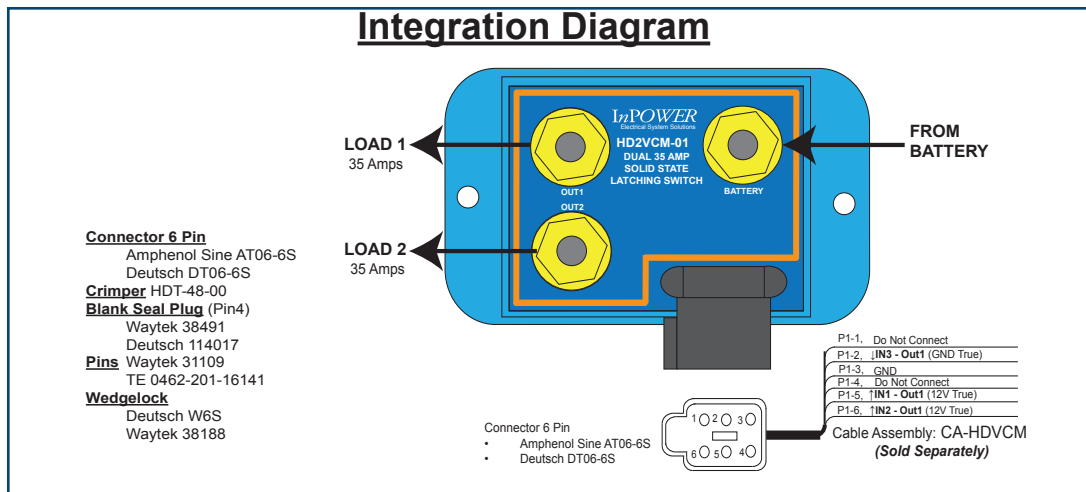
To ensure that our customers find the most suitable configuration for their specific application, we encourage you to get in touch with InPower. Our expert team will assist you in selecting the appropriate configuration to meet your requirements. Simply reach out to us to request the desired configuration and receive personalized support. sales@inpowerllc.com

Key Features

- **Low Power Consumption:** If the output is not active (IN1 & IN2 at GND, and IN3 is +12Vdc with No Transitions) current draw is 6mA.
- **Dual Channel Control:** Provides precise control for two independent +12V 35 Amp feeds, allowing seamless switching of loads.
- **Versatility:** Equipped with a microprocessor, enabling the controller to perform various functions based on customer-specified parameters.
- **Comprehensive Functionality Family Optional Configurations:** Optional voltage monitoring, current monitoring, low voltage disconnect, and efficient solid-state contactor control, providing a wide range of optional control options - Contact InPower.
- **Command Interface:** User-friendly control interface via a 6 Pin Deutsch connector ensuring easy and secure connectivity.
- **Customizable Configuration:** InPower's expert team can assist customers in selecting the appropriate configuration ensuring the best fit for your requirements.



Integration Diagram



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Specifications

Interface and Control

- Battery - Fused Power from the **BATTERY** (J1)
- Pin 1 - No Connection
- Pin 2 - IN3 Control Neg (\downarrow GND) Interface
- Pin 3 - Ground
- Pin 4 - No Connection
- Pin 5 - IN1 Control Pos (\uparrow +12V) Interface
- Pin 6 - IN2 Control Pos (\uparrow +12V) Interface

Output Specifications

- Output Drive: 35 amps at 12Vdc
- 12V Switched Output (\uparrow IN1): **OUT1** (J3)
- 12V Switched Output (\uparrow IN2): **OUT2** (J2)

Input Timing Requirements:

Transition Valid Time needs to be a minimum of 250ms for any of the Inputs to be recognized.

Time between Transitions: The input must be FALSE for at least 1 second prior to a new transition to be recognized.

Ordering Guide

Model	Configuration	Data Sheet
HD2VCM-01	2 Channel 35 Amp Three Input Latching Solid State Switch	PDS-274
Other Options Available on Request		

Power Rating

35 Amps Per channel at 185°F (85°C) *

40 Amp Trip after 5 Sec and Latches OFF*

70 Amp Trip after 500mSec and Latches OFF*

* All Ratings Mounted on a 12x12in, unpainted, Aluminum plate

Latched OFF Outputs require Manual Restart

• Turn OFF, then Turn ON again

Mechanical Drawing

