

# Chevy Volt DC-DC converter

## Quick Start Guide

The Accessory Power Control Module, sometimes referred to as the trunk inverter, (GM model number 24262765) is a 2000Watt air cooled, CAN controlled, DC-DC converter designed to convert the nominal 360 vdc available from the vehicle's traction pack down to ~12 vdc for powering the vehicle low voltage system and keeping the 12 vdc battery charged. This DC-DC can be enabled by our VCU or EVCC using the command *set ddtype volt*. Voltage is set by using the command (e.g.) *set ddvoltage 13.8*

### Specifications:

- Input Voltage: 260-420 vdc
- Output Voltage: 11-16 vdc (operates at 13.5 vdc without *set* command)
- Output Current: 135 Amperes
- Output Power: 2000 watts
- Dimensions: 13" X 9" X 3.5"
- CAN data rate: 500 kbps (see manual for setting data rate in the EVCC)

### Control Connections:

 (connector provided: JST part # AIT2PB-10P-2Ak )

Pin 1 and Pin 6: bridge with a 120 $\Omega$  resistor for CAN termination

Pin 2, CANL

Pin 3, CANH

Pin 5, Ignition, 12 vdc + (pin 5 *or* 10 must have 12 vdc to operate)

Pin 10, Accessory, 12 vdc + (optional)

Case, 12 vdc -

### Output Connections:

 (must be connected to operate)

12 vdc + (stud in black plastic insulator)

12 vdc - (stud in aluminum case)

### Input Connections:

 (connector provided: Delphi 13861585 type 101)

HV dc + (RH terminal – see below)

HV dc - (LH terminal)

