



HVJB-5-400 HIGH VOLTAGE JUNCTION BOX DATA SHEET



Ampere EV's high voltage junction box is a compact and feature dense solution for EV power distribution incorporating traction pack fusing, fused HV accessory ports, main contactor, pre-charge circuit, HV discharge circuit, and integrated HVIL.



Key Features

Rating Overview

Voltage	500V
Signal Voltage	12V
Current (continuous)	350A
Current (max)	1200A (20s)
Weather Protection	IP67 Water/Dust

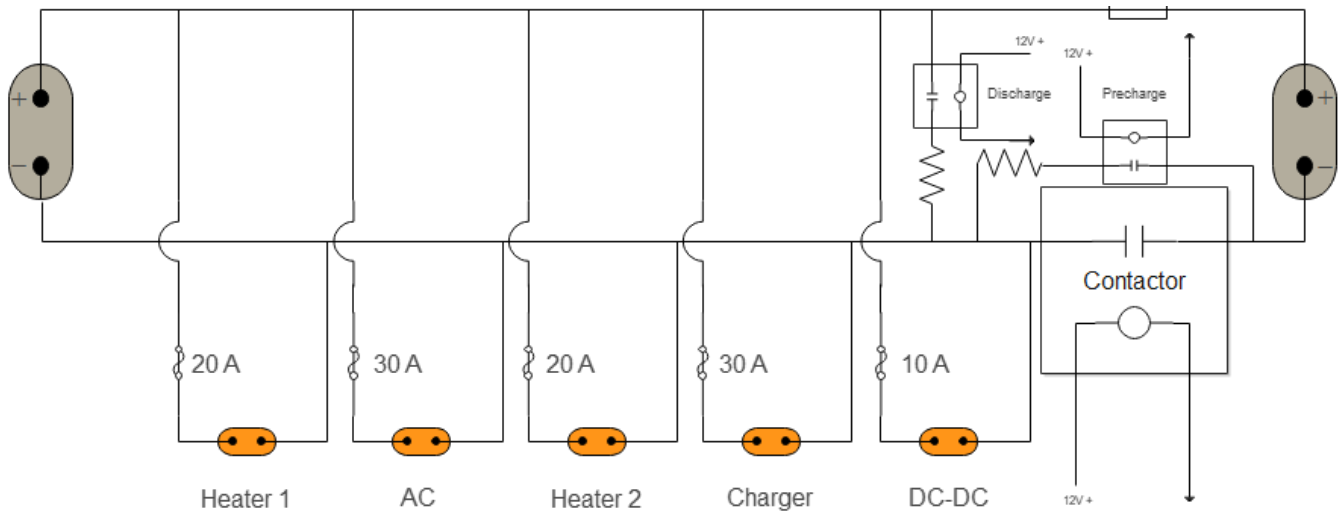
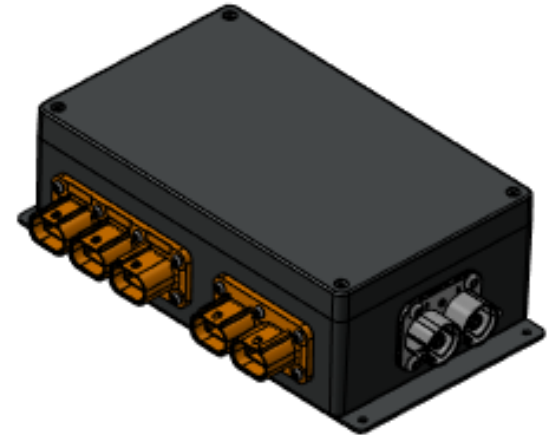
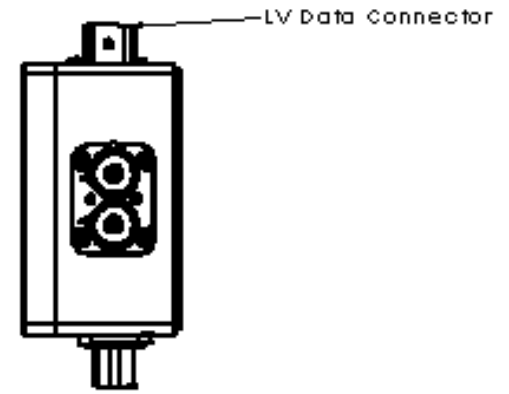
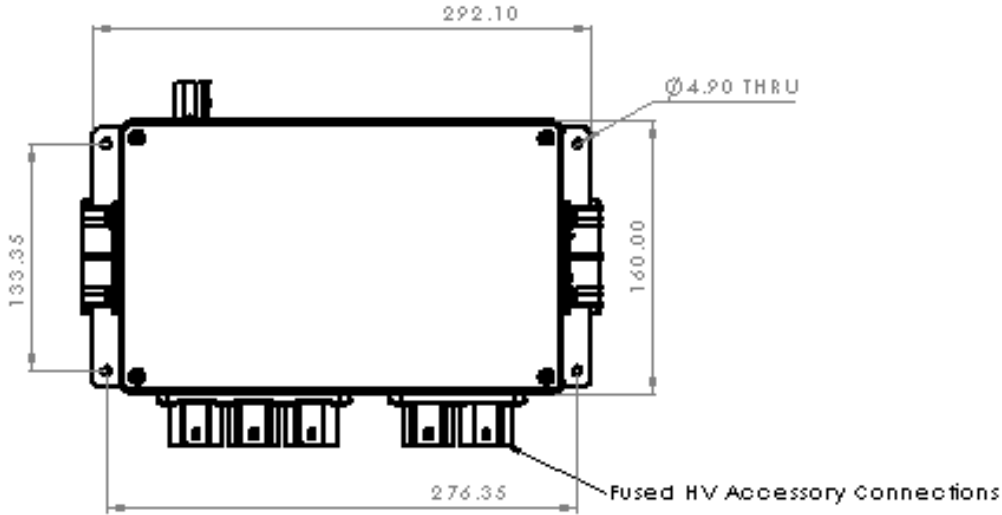
Electrical Components

High Voltage Contactor
Pre-charge Relay and Resistor
Discharge Relay and Resistor
Nickel Plated Copper Bussing
1 Main Fuse
5 Auxiliary Fuses

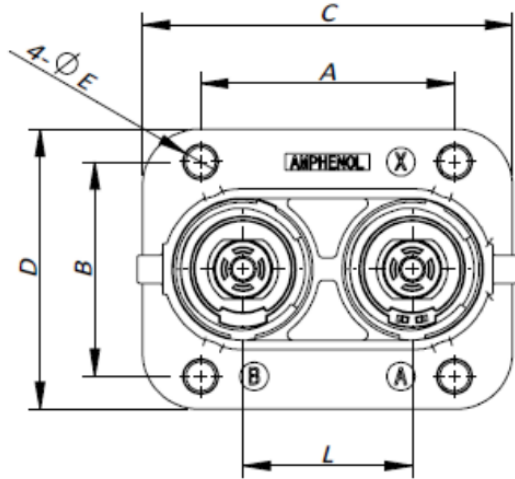
Fuses

Main: 400A
Aux1: 20A
Aux2: 30A
Aux3: 20A
Aux4: 30A
Aux5: 10A

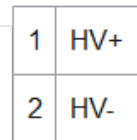
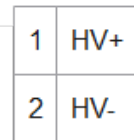
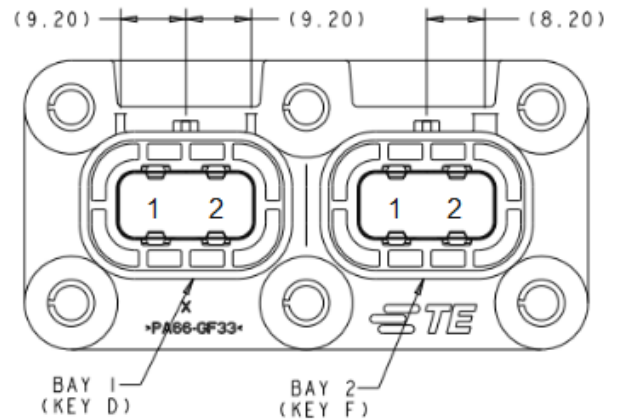
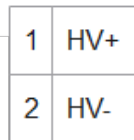
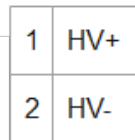
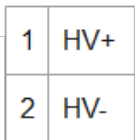
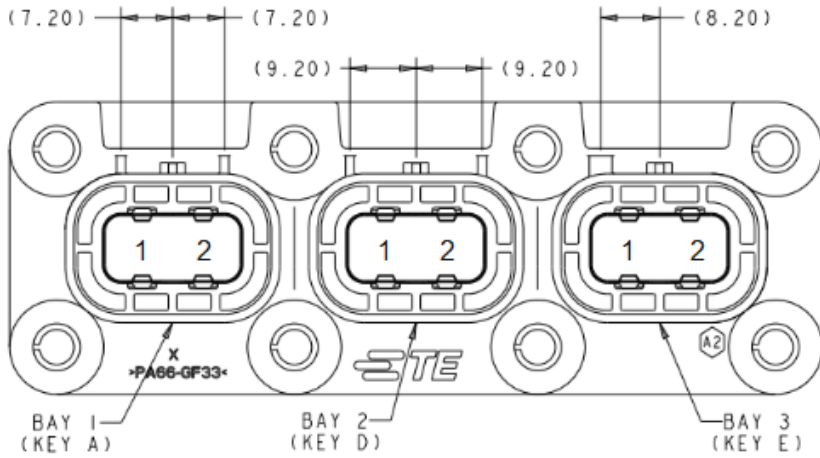
Dimensions and Wiring Chart

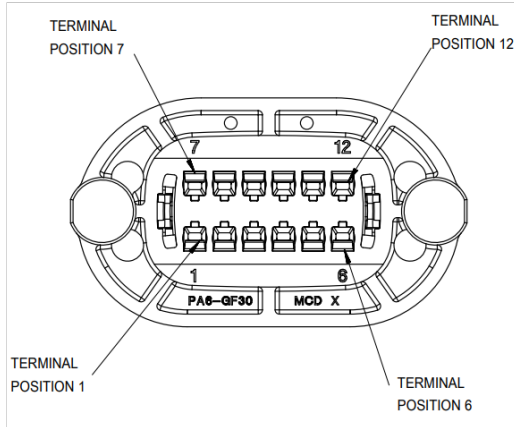


Electrical Pinouts



A	High Voltage Positive
B	High Voltage Negative





1	Contactor Feedback
2	Contactor 12V
3	Pre-Charge Relay 12V
4	Discharge Relay 12V
5	HVIL In
6	Reserved
7	Contactor Feedback
8	Contactor Ground
9	Pre-Charge Relay Ground
10	Discharge Relay Ground
11	HVIL Out
12	Reserved

