

Battery Pack Junction Box

Octillion Power Systems (OPS) - a Global Tier-1 Supplier of Advanced Lithium Battery Packs

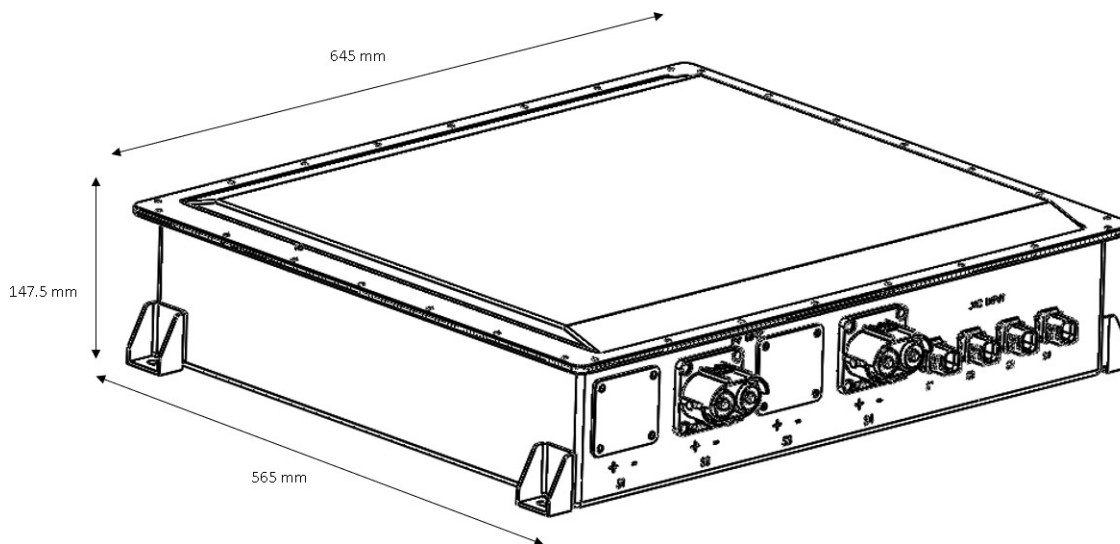
High Voltage junction box for connecting and controlling lithium ion battery pack

Specifically designed for medium/ heavy duty electric trucks and buses, this rugged and IP67 junction box can connect and control up to 8 battery systems creating a flexible battery pack array. Can operate at 330V and 650V nominal voltage and can withstand up to 750V input voltage.



Features

- Can control up to 8 battery packs creating flexible battery pack system from 30kWh to 240kWh
- Can operate at 330V or 650V nominal platform and up to 500A output
- Can have multiple fused outputs
- Complete incoming and outgoing current measurement
- Master BMS for communicating with battery packs and consolidate data for VCU
- Independent control of each input battery string
- Isolation detection circuit to measure battery pack and vehicle isolation resistance
- Ruggedized IP67 automotive grade steel enclosure



Dimensions of Octillion Junction Box

Connectors

Can operate at 330V and 650V nominal voltage and can withstand up to 750V input voltage. The list of connectors required for following connection types are listed below. Based on configuration i.e. 1s4P, 2s4P the quantity of each connector will vary. Based on vehicle specifications. Length of cable for connectors will also vary based on vehicle specifications.

Item	Socket	Connector	Details
1	TE Connectivity: 1-1703820-1	TE Connectivity: 1-1418469-1	Junction Box to Subpack Low Voltage Connector
2	TE Connectivity: 1-1564518-1	TE Connectivity: 1-1564514-1	Junction Box to Vehicle Low Voltage Connector
3	Amphenol: PL00W-501-10M8	Amphenol: PL10W-501-120	Junction Box to Vehicle High Voltage Connector (+)
4	Amphenol: PL00Y-501-10M8	Amphenol: PL10Y-501-120	Junction Box to Vehicle High Voltage Connector (-)
5	Amphenol: HVSL1000022A1H8	Amphenol: HVSL1000082A150	Junction Box to Subpack High Voltage Connector

Sample Connections

Figure 1. One series configuration

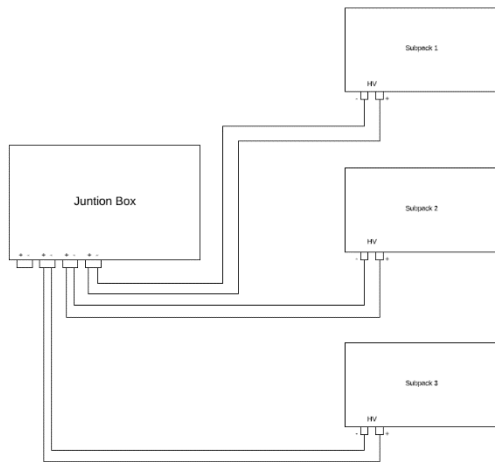
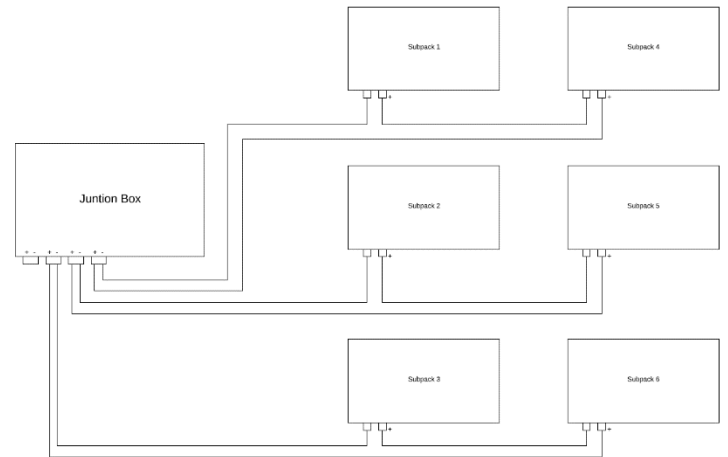
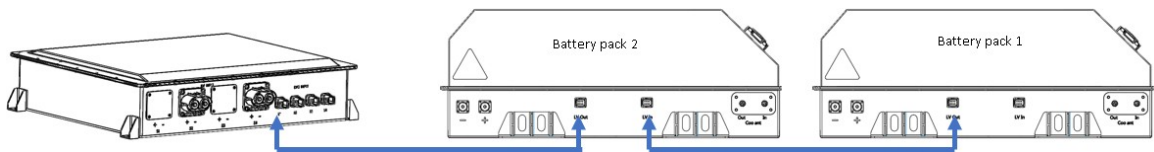


Figure 2. Two series configuration



LV Connection to Junction Box

Using 2 series connection as an example.



Contact Octillion

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