

Tesla Gen 3 Battery Charger Controller V1

The logic board uses a MODICE 32 pin enclosure system to house the logic board and provide connections both to the charger and the vehicle.

Connections to the vehicle are provided via a MOLEX MX150 20 pin connector.

Plug Part number : 33472-2001

Pins Part number : 33012-3001

Pinout :

| <u>PIN</u> | <u>FUNCTION</u> |
|------------|---|
| 1 | POWER SUPPLY GROUND |
| 2 | USB D+ |
| 3 | USB D- |
| 4 | +5V USB |
| 11 | CAN / USB GROUND |
| 12 | +12V SUPPLY INPUT |
| 13 | OUT1 – PROGRAMMABLE OPEN COLLECTOR OUTPUT |
| 14 | OUT2 – PROGRAMMABLE OPEN COLLECTOR OUTPUT |
| 15 | IN1 – PROGRAMMABLE +12V DIGITAL INPUT |
| 16 | IN2 – PROGRAMMABLE +12V DIGITAL INPUT |
| 17 | EVSE CONTROL PILOT |
| 18 | EVSE PROXIMITY SIGNAL |
| 19 | CAN LOW |
| 20 | CAN HIGH |

Connections to the charger power modules are provided via a MOLEX MX150 12 pin connector.

Plug Part number : 33472-1206

Pins Part number : 33012-3001

Pinout :

| <u>PIN</u> | <u>FUNCTION</u> |
|------------|--------------------------|
| 1 | GROUND |
| 2 | +12V SUPPLY |
| 3 | +5V SUPPLY |
| 4 | CAN LOW |
| 5 | CAN HIGH |
| 6 | CHARGER MODULE1_ACTIVATE |
| 7 | CHARGER MODULE2_ACTIVATE |
| 8 | CHARGER MODULE3_ACTIVATE |
| 9 | CHARGER MODULE1_ENABLE |
| 10 | CHARGER MODULE2_ENABLE |
| 11 | CHARGER MODULE3_ENABLE |