

## ***Tesla Model 3 Power Conversion System Controller V1 connector pinout***

The controller requires two Molex plugs and pins. One 20 Way plug is used for connecting to the Vehicle and the other 12 way is used for connecting to the PCS.

20 Way plug p/n :33472-2001

12 Way plug p/n:33472-1236

Pin p/n:33012-2002

20 way plug pinout (To Vehicle) :

|    |   |                         |
|----|---|-------------------------|
| 1  | - | Ground                  |
| 2  | - | 12V Permanent supply    |
| 3  | - | Output 1                |
| 4  | - | Output 2                |
| 5  | - | Input 1                 |
| 6  | - | Input 2                 |
| 7  | - | EVSE Control Pilot (CP) |
| 8  | - | EVSE Proximity (PP)     |
| 9  | - | CAN Low                 |
| 10 | - | CAN High                |
| 11 | - | CAN Ground              |
| 12 | - | USB D+                  |
| 13 | - | USB D-                  |
| 14 | - | +5V USB                 |
| 15 | - | Not used                |
| 16 | - | Not used                |
| 17 | - | Not used                |
| 18 | - | Not used                |
| 19 | - | Not used                |
| 20 | - | Not used                |

12 way plug pinout (To power conversion system connector X420) :

|    |   |             |           |             |
|----|---|-------------|-----------|-------------|
| 1  | - | Ground      | -W21      | X420 pin 12 |
| 2  | - | 12V         | -not used |             |
| 3  | - | 5V          | -W20      | X420 pin 1  |
| 4  | - | IPC CAN Tx  | -W06      | X420 pin 2  |
| 5  | - | IPC CAN Rx  | -W05      | X420 pin 3  |
| 6  | - | PCS Enable  | -W02      | X420 pin 6  |
| 7  | - | PWM DCDC    | -W01      | X420 pin 4  |
| 8  | - | PWM Charger | -W12      | X420 pin 5  |
| 9  | - | CP CAN High | -W19      | X420 pin 10 |
| 10 | - | CP CAN Low  | -W11      | X420 pin 11 |
| 11 | - | Not used    |           |             |
| 12 | - | Not used    |           |             |