Power Managment 2024-25 Documentation

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1 User Manual

1.1 Turning Vehicle ON

Turning the vehicle on can be done with the following steps:

- 1. Make sure the charger is unplugged
- 2. Make sure the charging breaker is in the "OFF" position
- 3. Switch the battery pack breaker from "OFF" to "ON"

Extra Info

- If the charging breaker is left on and the charger is connected to the car can attempt to draw a highger current than the charger is rated for. This should trip the charging breaker.
- If the charging breaker is left on and the charger unplugged the exposed terminals on the charging port will be energized by the battery pack.

1.2 Turning Vehicle OFF

Turning the vehicle off can be done with the following steps:

1. Switch the battery pack breaker from "ON" to "OFF"

1.3 Charging the Vehicle

Charging the vehicle can be done with the following steps:

- 1. Make sure the battery pack breaker is in the "OFF" position
- 2. Connect the charger to the charging port
- 3. Switch the charging breaker from "OFF" to "ON"

Extra Info

- \bullet The charger used is 60V 3A SLA Charger from Emmo
- \bullet The charging breaker used is 80V DC 5A Breaker
- Any charger designed to charge a 60V (5 cell) SLA Battery pack can be used but the charging breaker might have to be replaced if the new charger is a higher amperage

2 Implementation Details

2.1 Charging System

The charging system consisists of the following partsq