

Group A

Tesla Model 3

- Battery pack capacity: ~75 kWh - Battery pack weight: ~480 kg - Battery pack volume: ~0.3 m³

Size Vehicle=

[Group($A \cap B \cap C$)]

Length = 2200mm; Width = 1300mm; Height = 1400mm.

↓ Size Battery

Length ≈ 1700mm;

Width ≈ 1200mm;

Volume (Battery)

≈ 1.591m³

 $\mid if$ (Energy Density) \mid

Can fully charge

6.4 Tesla Model 3

4.8 Tesla Model S

=300 Wh/L

side view

BOLTZ

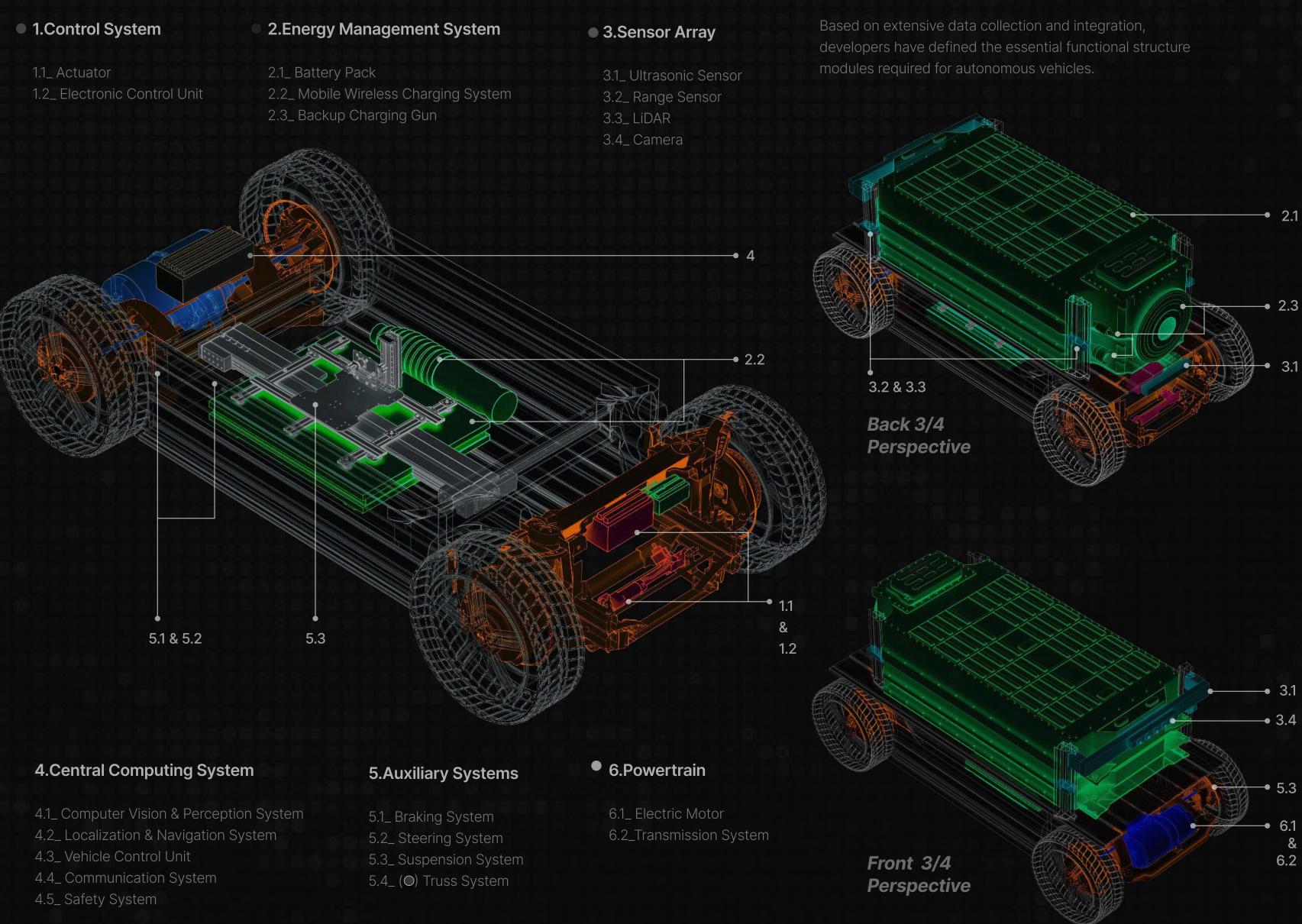
front view

back view

BOLT

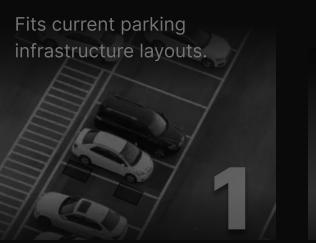
Product Layout Inner Structure Analysis





Charging Process

Why Wireless?



Eliminates port compatibility issues across EVs.

Reduces the risk of sparks or electric shocks



The mobile charging vehicle arrives, then scans the license plate to confirm it's the target EV.



The MCV then deploys a flat mini robot capable of moving freely within a certain range to charge.



The robot aligns with the EV's wireless charging port and starts the wireless charging service.