

Model 3 Return on Investment in Less than 24 Months

The Oorja Model 3 is a liquid fuel cell that operates as an onboard battery charger for a wide variety of Class 3 vehicles in the materials handling industry. The Model 3 keeps the vehicle's battery at a high state of charge, as shown in Figure 1, eliminating the need for battery swapping and rapid charging. Refueling infrastructure is inexpensive and safe because the fuel is a common industrial liquid, methanol. The Model 3 provides full grid independence and reduces CO₂ emissions by 30 to 60 percent.

Improves Productivity

Refueling the Model 3 takes two minutes, which supplies enough power to run the vehicle 12 to 16 hours. This power system keeps the vehicle charged and productive throughout the entire shift. It eliminates the downtime of swapping heavy batteries or driving to the battery room for charging.

Increases Performance

Refueling the Model 3 takes less than one minute, which supplies enough power to run the vehicle 12 to 16 hours. This power system keeps the vehicle charged and productive throughout the entire shift. It eliminates the downtime of swapping heavy batteries or driving to the battery room for charging.

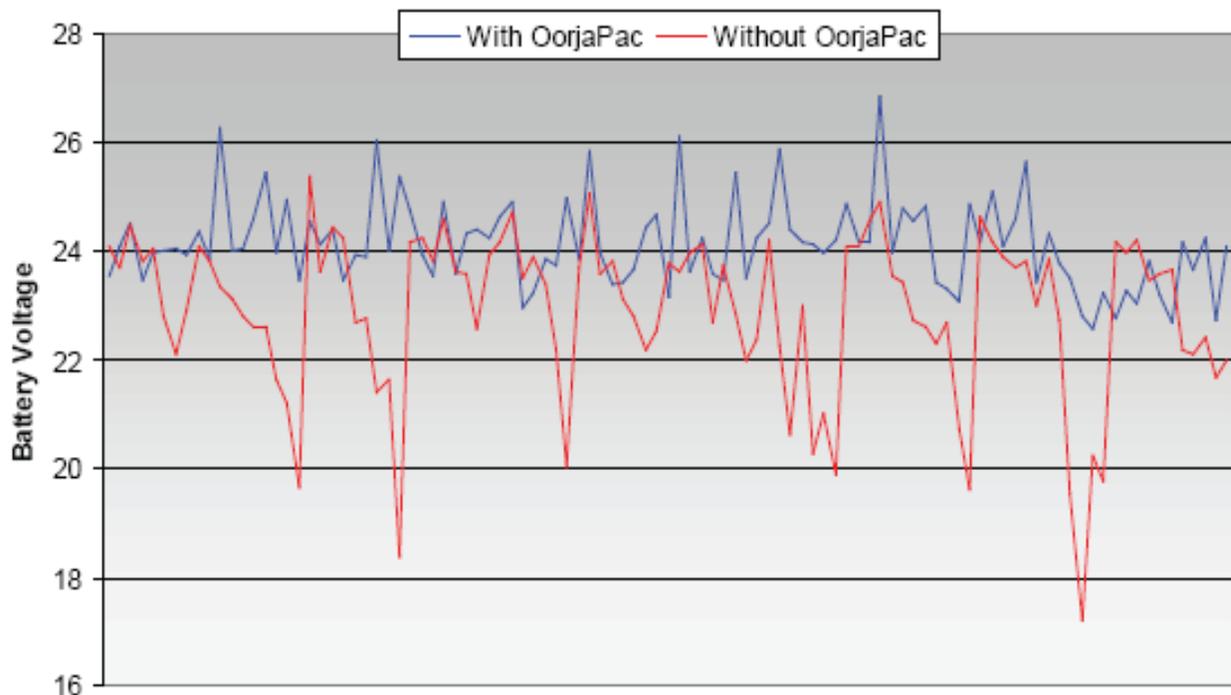


Figure 1. Oorja Battery voltage remains at a high state of charge

Reduces Operating Costs

The Model 3 eliminates the need for charging equipment, extra batteries, and redundant vehicles, allowing you to right-size your fleet. Fewer batteries also means less hazardous materials handling. Grid independence eliminated electricity costs and enables facilities to recapture battery room floor space for more productive use.

Provides a Clean and Safe Solution

Refueling the Model 3 is as simple as putting gas into a car; the Model 3 runs on liquid methanol, which is widely available and is produced from natural gas, landfill gases, and biomass. It is one of the most commonly used chemicals worldwide, present in plastics and textiles, windshield washer fluid, and paint thinner. It's easy to handle and requires no special facilities.

Oorja is committed to providing a safe power solution for your fleet. The Oorja refueling station is FM certified. Both systems use components that meet or exceed NEX Class 1 Division II standards. Compliance ensures that the Model 3 will not interfere with other electronics and will not be affected by conducted emissions. FM approval meets for national and state fire and explosion safety requirements. Figure 3 shows a fleet of Class III forklifts using Oorja fuel cells.



Figure 2. Class III forklifts with Oorja products serving as battery range extenders