TRUCKBOOST™

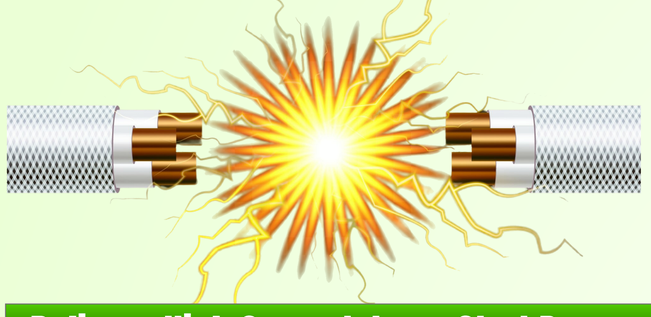
nurturenergy

Lithium Charge Cart
Maintenance Solution for Class 8 Truck Batteries

✔ Top Off Weak Batteries ✔ Extend Battery Service Life ✔ Breakup Sulfation

LITHIUM CHARGE CART SOLUTION FOR CLASS 8 TRUCKS

Modern electronics in trucks slowly drain batteries in parked trucks. Left unattended, sulfation builds up, capacity is robbed, and batteries die in a week.
TRUCKBOOST™ recharges and rejuvenates batteries, getting your trucks back on the road fast and extending battery service life.



Delivers High Current Jump Start Power

- Plates recover lost capacity as sulfation is broken down
- Rapidly tops off lead-acid / AGM batteries
- Smart auto charge keeps batteries in top health
- Integrated trouble light and tool basket

GET YOUR TRUCKS BACK ON THE ROAD FAST!

Energy Storage Battery	
Cell type	LiFePO4
Rated Energy Storage	5 kW-h
Cell operation temp (charging)	40°F to 125°F (5～+50°C)
Cell operation temp (discharging)	-5°F to 150°F (-20～+65°C)
Storage temp range (<1 month)	-5°F to 140°F (-20～+60°C)
Storage temp range (<6 months)	15°F to 115°F (-10～+45°C)
BMS	Protect against Out of Range I/O
Self-Discharge	<2% per month
Operating humidity range	10%~90% RH
Shipping class	UN3480
Cycle life	>3000 (0.5C charge and discharge)
Heating element	Not required

Buck Converter (Lead Acid Battery Charger)	
Max Output Power [kW]	2.5 kW
Output Amperage [A]	175 Amps
Rated output voltage [V]	14.7 VDC
Charging Mode Bulk CC	175 A
Storage temp range(<1 month)	-5°F to 140°F (-20～+60°C)
Operating humidity range	10%~95% RH

On Board Battery AC Charger	
Input Voltage [VAC]	90 to 264
Max Power [kW]	1.5 kW
Input Current (max) [A]	13 Amps
Operating humidity range [rh]	10%~95% RH

TRUCKBOOST™ PROVIDES JUMP START & DEEP CHARGING POWER WHERE NEEDED

One of the biggest maintenance headaches for trucking fleets is starting batteries. While it's easy to blame the battery manufacturer, it can be shown that most battery failures are caused by neglect or improper maintenance.

While lead acid batteries are relatively cheap and safe, they are imperfect. Any lead acid battery left in a low state of charge will form a coating of sulfate on the positive plate that will interfere with charging and discharging. This immobile hard sulfate on the plate also means less sulfuric acid in the battery. Both of these factors combine to rob the batteries of starting power and reserve energy to power driver hotel accessories.

TruckBoost™ is packed with power and ready to replenish batteries for unattended trucks in the yard. With 5 kW-h battery energy on board, the system can supply up to 175 amps of jumpstart power for truck starter batteries allowing quick & efficient return to service after yard stays or routine maintenance of trucks parked for storage.

Small, low-cost boost chargers may provide enough energy to get a stranded truck running but, without applying a sustained high current charge to the batteries, the batteries will remain in their sulfated state and continue to be low on starting power and hotel energy.

High current plug-in chargers may help to break down sulfation but they will often apply too high of a voltage and cause electrolyte water breakdown and oxidation to the negative plate which also robs of cycle life and starting power / reserve energy.

TruckBoost™ is a crucial part of your battery PM program.

- At-the-ready mobile source of power for easy truck jumpstarts.
- Typically provides enough energy for truck starter batteries to start the vehicle in 5 to 10 minutes.
- Provides up to 175 amps of current to break up plate sulfation and restore battery capacity when they are deeply discharged.
- Smart charge automatically delivers a measured amount of energy to the batteries without causing harm to the batteries to ensure they in their best possible operational health.
- Junior technicians can use this jump start cart with minimal training for routine yard maintenance.
    - o No need to pay a technician to stay in the truck to idle the engine for trucks with idle shut-down.
    - o No longer worry about technicians forgetting trucks left running in the yard without idle shutdown.
- TruckBoost™ won't harm the truck emissions system from prolonged engine idle.
- It takes about 40 minutes to increase a 4 starter battery SOC by 30% (1.5 kW-h).
- Charging cycle life is rated for 3,000 cycles or 10 years.
- Plugs into a common 15 Amp 120 Volt AC wall outlet for easy recharging.

Customers: Large Fleets, Truck Dealerships, Leasing Companies, Truck maintenance facilities, Truck storage areas