

BATTERY MAINTENANCE & CHARGING

WATERING

Never water a battery unless the battery is fully charged.

Proper Water Level:	Water is above the plates and below the bottom of the vent well
Water Quality:	Only use deionized water or water free from high impurity levels (<100 parts/million)
Weekly:	Check water level after a charging cycle
Bi-Monthly:	If watering system present, manually check cell's water level and watering system functionality



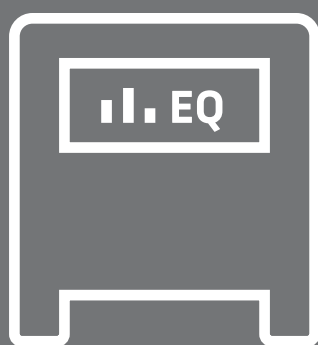
CHARGING

Conventional Charge

- The battery should always be recharged immediately following a complete discharge
- Perform an equalization charge weekly
- Batteries must rest after charging for a minimum of 8 hours

Opportunity Charge

- Battery on charge when not in use
- Ideal operating range is between 20-60% state of charge
- Battery must be fully charged daily
- Battery must be equalize charged weekly



- Inspect all cables and connectors prior to plugging in
- Confirm that the charger has started and address any error messages (visual check)
- Press the Stop button before disconnecting the battery from the charger (avoid hot disconnects)

TEMPERATURE

Conventional Charge

- Operating/charging temperature range: 60° - 100° F

Opportunity Charge

- Operating/charging temperature range: 60° - 125° F



- Delay charging if battery is outside of safe temperature range
- Operating temperatures < 60 F result in less capacity and special charging may be required.

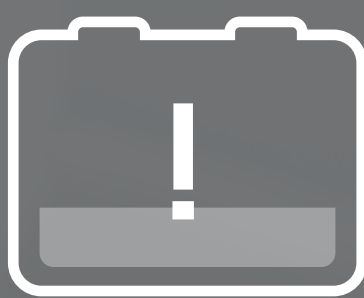
DISCHARGING

Conventional Charge

- Batteries are designed to be discharged to 20% state of charge (SOC) daily

Opportunity Charge

- Ideal battery state of charge (SOC) is between 40-80% of rated battery capacity



- Irreversible damage occurs when battery is discharged below 20% state of charge (SOC)
- Always recharge when the truck low battery indicator turns on

GENERAL MAINTENANCE

- Top of battery should always be clean, dry, and free of any items
- Every month, you should:
 - Inspect and clean top of battery
 - Inspect cables and connectors on batteries and chargers
 - Read and record individual cell voltage and specific gravity readings

