

# HOW TO PROPERLY MAINTAIN YOUR BATTERY

## 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



For Assistance, Contact Stryten Customer Service at 1-866-462-2288.