# AMETEK® Application Specific Guide

PRESTOLITE POWER

| | Freezer | High Ambient Temp | Multiple Shift | Single Shift | Light Duty | Sealed Batteries | Opportunity Charging | Fast Charging | Nominal Start Currents |
|---|---|---|---|---|---|---|---|---|---|
| **Ferroresonant** | | | | | | | | | |
| Accu-Charger | | | | | | | | | 20 amps/100AH |
| Battery Mate 100 | | | | | | | | | 20 amps/100AH |
| Battery Mate 80 | | | | | | | | | 17 amps/100AH |
| Battery Mate 60 | | | | | | | | | 13.3 amps/100AH |
| LTD | | | | | | | | | 10 amps/100AH |
| **SCR** | | | | | | | | | |
| Ultra Charge | | | | | | | | | 16.3 amps/100AH |
| Ultra Maxx | | | | | | | | | 16.3 - 40 amps/100AH |
| Power Star Plus | | | | | | | | | 16.3 - 40 amps/100AH |
| Power Star 100 | | | | | | | | | 16.3 amps/100AH |
| Power Star 80 | | | | | | | | | 14.3 amps/100AH |
| Power Star 60 | | | | | | | | | 10.5 amps/100AH |
| **High Frequency** | | | | | | | | | |
| Eclipse II Extreme | | | | | | | | | 16.3 - 50 amps/100AH |
| Eclipse II | | | | | | | | | 16.3 amps/100AH |
| Eclipse II Plus | | | | | | | | | 16.3 - 40 amps/100AH |

BLUE IS GOOD

RED IS BETTER

GREEN IS BEST

All AMETEK chargers have a finish rate of 5A/100AH

**Freezer application**

Batteries with low electrolyte temperature require a higher rate of charge. In extreme cold applications, charger over sizing may be recommended on Accu-Chargers andBattery-Mate 100 chargers. Contact the factory for specific adjustment recommendations.

**High ambient temperatures**

Batteries with high electrolyte temperature require a lower rate of charge. In extreme high temperature applications, charger under sizing may be recommended on Ferroresonant chargers. Contact the factory for specific adjustment recommendations.

**Multiple shift**

The charger selected for multiple shifts is dependent on recharge time requirements. The higher the output, the quicker the charge. The Ultra and Accu will recharge an 80% discharged battery in 6-7 hours, Battery-Mate 80 in 8+ hours.

**Single shift**

With lower start rate chargers the only compromise is charge time. The battery will still receive a complete charge, it will just require more time to do it. The Battery-Mate 80 requires 8 hours to recharge an 80% discharged battery. Battery-Mate 60 requires 10 hours.

**Light duty**

The recommended chargers for light duty applications still have the same proven quality. With a reduced start rate the pricing is less expensive. Charge time on the recommended units vary from 8 to 12 hours to recharge an 80% discharged battery.

**Sealed batteries**

Sealed batteries require special charging profiles that generally have low finish voltages compared to Ferroresonant chargers. The Ultra will recharge an 80% discharged battery in 8+ hours,

**Opportunity charging & Fast charging**

This type of charging requires a charging system capable of indentifying the connected battery & monitoring battery temperature and adjusting it's output to avoid overheating the battery