

SureCharge is a major improvement over other battery charging approaches by using a microprocessor controlled dual rate design that will charge a battery linearly with time. In most charger designs, within the security and fire industries, charging current decreases as the battery charges, lengthening the charge time. In LSP designs, charge current is held constant until the microprocessor senses a charged condition, guaranteeing the fastest charge time.

Some designs use a PTC as the charge control element and these designs suffer from two problems; the first being an inability to start the charge process in a large battery set, the second being that the PTC changes the charge current with temperature. Both of these problems may prevent a large battery set from ever recharging properly. These common problems are solved with SureCharge.