

066 Charge Control (046-066)



Display Capabilities

- Fault LED indicating "watch dog" abnormal shutdowns
- Equalize Selected
- Status (Red-Start to 80%, Yellow-80% to End, Green-End)

Features

- Fully automatic, utilizes dV/dt - dI/dt termination of charge
The control will start the charging approximately 5 seconds after the battery is connected. Charge cycle termination is controlled by the slope of the battery's voltage with relationship to time. The nearer to fully charged, the flatter the charge voltage curve.
- Wrong battery voltage-discrimination
If a battery with too many or too few cells is connected, the charger will not start.
- Jump start for dead batteries
Using battery voltage-discrimination requires a means to initiate the charge cycle if a properly sized battery is deeply discharged and the charger cannot recognize that it has been connected.
- Thermal runaway protection (hot battery shutdown)
If a battery starts to overheat, its voltage will drop, and at the same time, the charge current will increase. This will be sensed by the control, and the charge cycle will terminate under fault.
- Watchdog circuit for microprocessor or time faults
If the microprocessor fails, or if it takes too long to reach certain milestones during the charge cycle, the control will terminate the charge.
- Five second start-up safety delay
When plugging a battery into the charger, the control will wait for approximately 5 seconds before applying power to the charger. This prevents arcing of the connector tips.
- High DC voltage shutdown (for sealed batteries)
Standard factory setting of 3.00 volts per cell can be pre-programmed to what ever voltage the customer stipulates at time of order.
- Modular design for interchangeability
The harness connector for the board is the same on all our controls. Upgrading or changing out controls is simplified.
- Three position rocker switch.
Stop/Restart-Normal-Equalize On/Off
- Zero DC current shutdown (disconnected battery)
If the battery is disconnected during the charge cycle, the loss of current flow is sensed and the charger is de-energized.