

GENERAL CYCLING INFORMATION

NIF-200-5 MODULE

DISCHARGE

The minimum (cut-off) voltage during discharge at rates of C/3 (67 amps) or less is 5.0 volts per battery. The minimum voltage for C/2 rates (100 amps) and greater is 4.5 volts per battery.

CHARGE

Charging may be accomplished by applying a constant current, constant voltage, or a combination of the two methods. Constant current rates of 10 to 60 amps are acceptable. Rates lower than 10 amps and higher than 60 amps may be used but the charge efficiency is reduced. The optimum constant voltage is 8.35 volts per module.

Charging following 100% depth-of-discharge (~200 AH) should return 270 AH for best performance. Charging following partial depth-of-discharge should return 140% of the removed capacity.

WATERING

Watering is necessary when the electrolyte level drops to a height approximately 2 inches below the battery cover. Watering is most easily performed after the end of discharge and is accomplished by means of the single-point watering system. De-ionized or distilled water should be used. The water is fed into one end of the manifold system with the other end of the manifold connected by means of tubing to a collection reservoir. Each cell will fill in sequence to a predetermined level.