

Scheme - III - Float cum boost charger and float charger

This Scheme comprising of one set of Battery with associated Main Float Charger, Standby Float Charger and a Boost Charger. The basic principle of operation is similar to Scheme - I, except whenever the Float Charger fails, the Standby Float Charger will get energized automatically and supply the DC continuous load as well as Floating the Battery. The automatic changeover is possible from Main Float to Standby Float and vice-versa. Thus changeover can also be done with manual operating facility.

Scheme - IV - Two Nos. of float cum boost chargers

This scheme consists of two sets of Battery with associated Float cum Boost chargers along with Duplex Distribution System comprising of Bus Section-I and Bus Section II.

In the normal working, the bus coupler shall be kept open and each bus section load will be supplied by respective Battery Charger (Battery Charger working in Float Mode) as well as Floating the Battery. When AC mains supply fails, the respective Bus Section load shall be supplied by the respective Batteries. After resumption of the AC mains supply, the Battery set of any one Bus Section shall be kept for Boost Charging in Constant Current Mode isolating from the DC bus and load shall be fed by second set of Battery Charger in its Constant Voltage Mode associated with its partially discharged Battery and by closing the bus coupler. This operation can be done vice-versa.

After complete recharging of both Battery sets, the Bus coupler shall be kept open and individual Battery Charger shall supply the load in the constant Voltage Mode.

All these scheme are designed as per customers requirement and to obtain highest commercial performance, Scheme such as Auto change over from boost mode to float mode, Batteries from boost charger to float charger when the charging is over or vice versa when the charging is required, Auto on/off equipment when the AC power resumes after failure, appropriate cell taping selection on D.C. Bus-side to maintain continuity in voltage, Solid state Enunciator to provide fault indications.