Chloride Power Systems and Solutions Limited, formerly known as Caldyne Automatics Limited, is a 100% subsidiary of Exide Industries Limited. Established in 1980, it is a leading name in the field of Industrial Battery Charger, DC Power Solutions and Solar Power systems in India. As a part of its policy of continuous innovation, Chloride introduces its integrated Microcontroller Battery Charger.

Battery chargers play an important role in ensuring optimum life and performance of industrial storage batteries. Chloride (erstwhile known as Caldyne) chargers have been performing this duty relentlessly at different power plants, sub-stations, steel plants, refineries, oil & gas pipelines, telephone exchanges and many other manufacturing and service industries for over last three decades.

Chloride manufactures thyristor based chargers and high end microcontroller based chargers for better control and flexibility. Over the last five years, Chloride has produced innumerable microcontroller based chargers of various ratings for a wide range of utilities and industries in India and abroad. These are rendering trouble-free service to the entire satisfaction of the customers.

Benefits of a Microcontroller based Battery Charger

1. In a digital microcontroller based charger, complete control is achieved through programming of the microcontroller module.
2. Same microcontroller module can be used for different ratings of charger.
3. For changing the controlling parameters, no modification or readjustment is needed in hardware components in a microcontroller based system. Microcontroller based chargers can also provide digital interface which makes the chargers intelligent, user friendly and capable of handling complex requirements.
4. Voltage and Current setting can be changed through keypad. This gives flexibility and precision control and the changes can even be visualized on the LCD screen.
5. Settings are password protected.
6. Fault history is available with date and time.
8. Charging/Discharging mode and the voltage/current values can be easily read from the LCD screen.
9. Minimum relay or electrical circuitry is required for the interlocking system.
10. Smaller and lighter in size and weight.

Indication/Alarm through LED

(i) Controller Power ON
(ii) Rectifier OK
(iii) Battery OK
(iv) Battery Discharged
(v) Charger Fail
(vi) Common Fault

Indication/Alarm via LCD

The LCD of a Charger generally displays the following messages when relevant. Multiple parameters can be viewed by scrolling navigation keys.

(i) Charger Fail
(ii) Load Under-Voltage
(iii) Load Over-Voltage
(iv) Low Electrolyte
(v) DC Earth Fault
(vi) Battery Disconnected
(vii) Input Fuse Fail
(viii) Rectifier Fuse Fail
(ix) Battery Fuse Fail
(x) Output Fuse Fail
(xi) Fan Failure
(xii) Battery on Boost Mode
(xiii) Battery Discharging
(xiv) Input voltage / current
(xv) Load voltage / current
(xvi) Battery voltage / current
(xvii) Any other information as per the requirement.

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