

CHLORIDE

MICROCONTROLLER BASED
SMARTCHARGE



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Chloride Power Systems and Solutions Limited is a 100% subsidiary of Exide Industries Limited. It is a leading name in the field of power electronics in India. As a part of its policy of continuous innovation, Chloride introduces the Microcontroller based smart charger for the industry.

This is a microcontroller based charger which can charge both VRLA as well as flooded lead acid type battery.

Features

- Capacity 24V/20A & 30V/20 Amps
- Microcontroller based charger
- Suitable for all types of VRLA and Flooded battery
- Portable, light weight
- Control and interlocking both present in single control card
- LCD display (Optional feature)
- Soft start feature
- Two dedicated converter for auto circuit and manual circuit.
- Suitable for VRLA and Flooded battery
- Same charger can be used for 24 V & 30 V D.C system

Protection

- Overload/short circuit
- Reverse polarity
- Input and output fuse
- Filter circuit protection
- Input surge protection

Annunciation

- Overload/ short circuit
- AC I/P voltage out of range
- DC under voltage
- Mains ON Battery discharge
- Auto/Manual no output
- Auto fail

Indications

- Mains ON
- Auto float
- Auto boost
- Manual operation
- Output ON
- Reverse polarity

Technical Specification

SL. No.	Parameters	Range
T1.	Input Power Supply Range	230V AC (160 to 270 V AC) 1-Phase, 3 Wires, 50 Hz. AC. \pm 5%Hz
Output Voltage (Auto Mode):		
T2	Float	2.2 V/cell
	Boost mode	Up to 2.4V/cell.
Output Current (20 Amps Max.)		
T3	Float mode	20 Amps DC Continuous plus trickle charging current of the battery.
T4.	Output ripple (float mode)	Within 5% RMS at full load & max. DC voltage.
T5.	Output regulation (float mode)	\pm 1% for 160 to 270 V AC supply voltage fluctuation and 10% to 100% load variation.
T6	Mode of Operation and Termination of charging	Automatic / Manual
T8	Control Configuration (Auto)	1-phase full wave half control Thyristorised and diode bridge fed thru' 1-Phase transformer controlled by constant potential / current controller unit and microcontroller with load limiting feature (AVC/ACC).
T9	Control Configuration (Manual)	1-phase full wave diode bridge rectifier fed thru' 1-Phase transformer and controlled by Tap changer switch manually.
T10	Connected Battery Bank	12 / 15 Nos. of Lead Acid Cells

Chloride Power Systems and Solutions Limited (a wholly owned subsidiary of Exide Industries Limited) KOLKATA : Plot No.Y-21, Block-EP, Sector-V, Salt Lake Electronics Complex, Kolkata 700 091, West Bengal, India, Phone Nos. (033) 2357 5851/5852/5853/5854/7841, Fax: (033) 2357 7062, Email : info@chloridepower.co.in, Website : www.chloridepowersystems.com, Debasis Saha Mobile No. : +919830125945 Email: d_saha@chloridepower.co.in, Santasri Sarma Mobile No. : +919830482288 Email: sarmas@chloridepower.co.in, Pranab Dey, +91 9051378700, pranabd@chloridepower.co.in, Mosharaf Ali Mobile No. : +919051570328 Email: mosharaf@chloridepower.co.in, Mr.Nelesh Pandit, nelesh@chloridepower.co.in, +91 9051260600, Indrajit Bhattacharya Mobile No. : +919674163117 Email : indrajit@chloridepower.co.in **Central Service** Parthapratim Sahana Mobile No. : +919674163113 Email : sahanap@chloridepower.co.in, **DELHI:** 8/42, Ground floor, Opposite of MDH Spice factory, Kirtinagar Industrial Area, Email : ashutoshrai@chloridepower.co.in, caldynedel@exide.co.in / caldynedel@rediffmail.com, Ashutosh Rai Mobile No. : +9199115 51626 **MUMBAI:** Apeejay Chambers, 5, Wallace Street, Fort, Mumbai - 400 001 Phone : 022-22058502 Email : amar@chloridepower.co.in, Amarnath Mirajkar Mobile No. : +9198337 61222 **CHENNAI:** Now No. 824/1, Old No 398. 3rd floor Anna Salai, Nandanam, Chennai 600035, Tamilnadu, India. Ph: 044 2434 1217, Fax: 044 4907 5126, Isaac Shantharaj Mobile No.: +919444073315 Email : isaacjs@chloridepower.co.in, **BANGALORE:** Ware House No. 8, KKSP Complex, 7th Mile, Kudlugar, Hosur Main Road, Bangalore - 560 068, Phone : 080-2574 4353 Email ID : rahul@chloridepower.co.in, Mr. Rahul Kumar Vishwakarma Mobile No. : +919901444665 **For Solar enquiries** Sanjoy Malash Mobile No. : +9192305 19896 Email: sanjoym@chloridepower.co.in, Satyabrata Pattanayak Mobile No. : +91 9830440008 Email: satyabratap@chloridepower.co.in Website : www.chloridepowersystems.com

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