



## MODEL MBC-19

## REGULATED SEMI-FLOAT SINGLE RATE INDUSTRIAL BATTERY CHARGER

This Low Cost Charger is Competitively Priced but Superior to unregulated "Battery Boiler" chargers and trickle chargers.



### Performance Advantages:

- For PERMANENT CONNECTION to provide continuous 24 HOUR SERVICE
- REGULATED Semi-Float Operation
- ELIMINATES EXCESSIVE GASSING (prevents high water consumption)
- Provides CURRENT TO MEET the Battery DEMAND
- LINE COMPENSATED and D.C. Voltage Regulated
- Price INCLUDES CRANK DISCONNECT RELAY
- FULLY RATED
- Provides CONTINUOUS Rated OUTPUT when needed TO MAINTAIN FULL CHARGE on Batteries
- Fully CHARGES BATTERIES at least TWICE AS FAST as similar or lesser rated unregulated units
- Factory PREADJUSTED to battery type
- NO TAPS No field adjustments
- Low voltage shutdown for REVERSE POLARITY and SHORT CIRCUIT PROTECTION

### Construction Features:

- Proven Design and Components
- Solid State Control
- Components are all sealed and are Industrial Grade or better
- Heavy Duty Construction thruout
- Heavy External Mounting Tabs
- Hinged Cover with Latch — No disassembly required for installation
- Ammeter, D.C. output fuse, and A.C. circuit breaker — All door mounted
- OUTPUT completely ISOLATED from A.C. Line

### Technical Performance Summary

OUTPUT CURRENT — 5 Amp Min. for any state of Battery Charge

RATED — for 5 Amp Continuous Duty

LINE REGULATION — 1.0% Max.

LOAD REGULATION — 1.0% Max.

RECOMMENDED BATTERY CAPACITY — 25 to 115 Amp-Hour (up to 230 Amp-Hour [8D] when line voltage NOT excessive)

ENVIRONMENT — For use indoors for any ambient conditions suitable for the battery

BATTERY DRAIN (A.C. OFF or LOW) — 10mA Max.

*We like to Boast! . . . ask us for detailed specifications*



# MASTER CONTROL SYSTEMS INC.

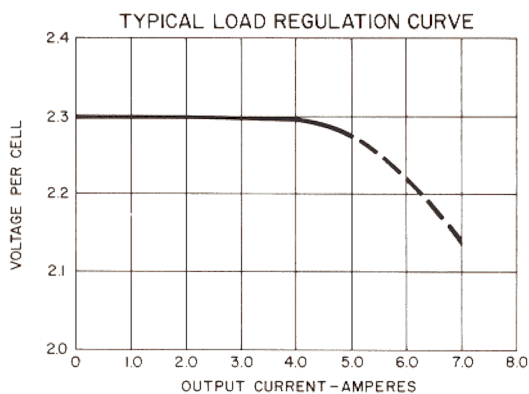
# MODEL MBC-19

The Model MBC-19 is a highly regulated (better than 1%) and fully rated battery charger. On discharged batteries it will provide full output longer, followed by a fast drop down to very low maintaining current (see curves). It will also provide full rated output to external loads without discharging the battery. This makes maximum use and availability of battery capacity and

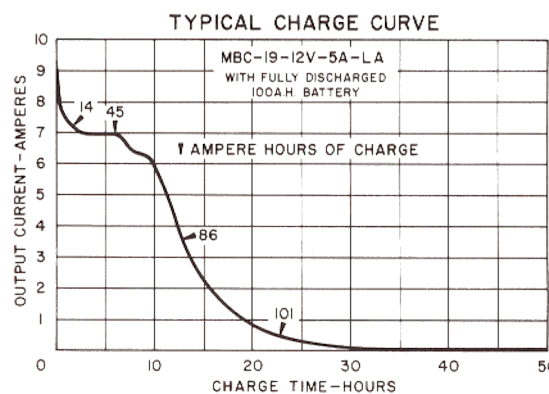
prevents excess water consumption (gassing or 'boiling'). With no field adjustments and simplified installations, these rugged chargers extend both the utilization and the life of batteries compared to similar or more expensive semi-float, unregulated, or trickle chargers. This low cost high quality product increases the reliability of Standby Engines.

MODEL NUMBER	—D.C. OUTPUT—		MAX. LINE DRAW (115VAC)	WEIGHT LBS (KG)	NUMBER OF BATTERY CELLS		
	VOLTAGE	CURRENT			-LA*	-FL*	-NC*
MBC-19-12-5-*	12 Volts	5 Amps	1.5 Amps	19 (9)	6	6	10
MBC-19-24-5-*	24	5	3.0	22 (10)	12	12	20
MBC-19-30-5-*	30	5	4.0	26 (12)	15	15	24
MBC-19-32-5-*	32	5	4.0	26 (12)	16	16	26

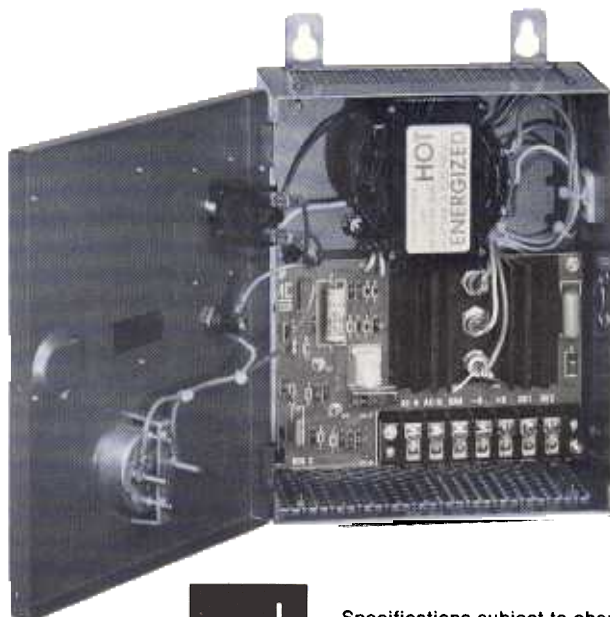
\* Add suffix 'LA' for automotive (truck) lead acid batteries (1.265-1.285 Sp. Gr.) or add suffix 'FL' for float service lead acid batteries (1.200-1.220 Sp. Gr.) or add suffix 'NC' for nickel cadmium (high rate). Consult factory for other types.



HIGHLY REGULATED



FAST CHARGING AND LOW WATER CONSUMPTION



### ORDERING INFORMATION

- MCS Model number — with suffix \*
- A.C. Input (115VAC, 60Hz, 1Ø standard —220VAC, 50Hz, 1Ø available)
- Number and type of battery cells
- Battery capacity and specific gravity or model & mfr.
- Continuous D.C. loads (if any)

### SAMPLE SPECIFICATIONS

— For More Reliable Systems Please Specify —  
 'The battery charger shall be a Master Control Systems Model MBC-19. It shall have line and load regulations of ±1% or better. It shall be capable of carrying 100% of rated output continuously without allowing any battery discharge. It shall be factory preset and require no field adjustments.'

Specifications subject to change without notice.



## MASTER CONTROL SYSTEMS, INC.

P.O. BOX 276 • 910 NORTH SHORE DRIVE, LAKE BLUFF, ILLINOIS 60044-2295, USA  
 708/295-1010 FAX: 708/295-0704 TELEX: 25-4636