

# MULTI-RANGE ACCU-CHARGER®

## Ferroresonant Industrial Battery Chargers



(note: shown with optional mounting kit)

### ⚡ Designed for extreme flexibility

The Multi-Range Accu-Charger is engineered to efficiently charge 100% discharged lead-acid batteries in a variety of cell sizes and a wide range of ampere-hour capacities. Designed to charge 6, 12, 18, 24 or 36 cell batteries within 8 to 24 hours, the Multi-Range is available in two single-phase models. Extremely flexible, this particular Accu-Charger conveniently eliminates the need for multiple chargers.

### ⚡ Ferroresonant Circuitry

The Multi-Range utilizes ferroresonant power conversion circuitry that safely charges batteries without overcharging. Virtually maintenance-free, this efficient circuitry is designed to provide years of dependable service.

### ⚡ Standard equipment includes

The Multi-Range Accu-Charger comes equipped with a charge-rate ammeter, a 24-hour timer with "daily charge" setting indicator and an 8-foot charging cable with Anderson type SB connector.

### ⚡ Multiple AC input voltages

The Multi-Range charger provides multiple AC input voltages for increased flexibility of the charging operation.

### ⚡ Handy reference chart

On the front of every Multi-Range charger is a handy reference chart that provides charging time information according to battery cell size and ampere-hour capacity.

### ⚡ Setting the charger

Before beginning the charging operation, set the Multi-Range for the proper battery size through the cell selector conveniently located under the top lid of the charger. Turn the dial on the front face of the charger to the time required to charge.



### ⚡ Fully automatic operation

Just connect the battery, select the cell size, and set the time to charge. The Multi-Range will automatically begin the charging operation. When charging time is complete, the charger will automatically terminate the operation.

### ⚡ Battery/charger safeguards

The Multi-Range Accu-Charger is internally protected against overload, short circuit, incorrect battery settings and voltage transients. These safeguards protect the charger and prevent battery damage for longer life.

### ⚡ Regulation

The Multi-Range Accu-Charger will hold the finish rate of the charge within  $\pm 1\%$ , even with line voltage variations as high as  $\pm 10\%$ . This protects, and properly charges the battery, even when severe input voltage variations exist.

### ⚡ Warranty

Ten-year warranty to original purchaser on power transformer and silicon diodes. One year on other components.

### ⚡ Convection cooled and quiet

The Multi-Range uses no fans to draw in dirty air and has low sound levels for quiet operation.

### ⚡ Recessed cell selector

The cell selector is recessed to help prevent incorrect settings by inexperienced personnel.

### ⚡ Wall or bench mounting

The Multi-Range can be either wall or bench mounted to help protect it from accidental damage by trucks.

### ⚡ Optional portable mounting kit

Lets you take the charger where you need it. Complete kit includes wheels and handle (shipped loose) and 8 foot AC cable with plug.

### Cable information

Size	208/240 VAC	120 VAC
50 amps	393699-1	363699-3
75 amps	393699-2	—

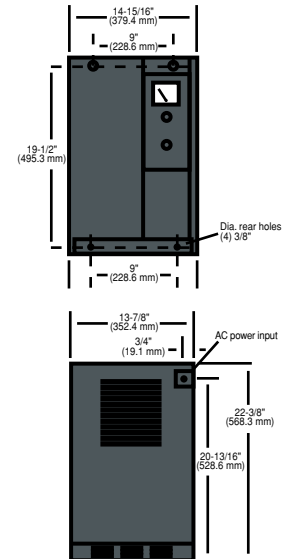


# Multi-Range Accu-Charger

## Multi-Range Accu-Charger specifications

	Model 50A1-6M36	Model 75A1-6M36
DC output current rating	50 Amps.	75 Amps.
AC input voltage	120-208-240 (single-phase, 60Hz)	208-240-480 (single-phase, 60 Hz)
AC input current	20-11-10 Amps.	16.5-15-7.5 Amps.
Weight	102 lbs. (46 kg)	120 lbs. (54 kg)
Cooling method	Convection	Convection
6 cells	Start rate = 50 Amps.	75 Amps.
12 cells	Start rate = 40 Amps.	60 Amps.
18 cells	Start rate = 30 Amps.	45 Amps.
24 cells	Start rate = 25 Amps.	38 Amps.
36 cells	Start rate = 18 Amps.	28 Amps.

## Outline and mounting dimensions



## Charging capabilities

To determine the approximate charging time required to recharge a 100% discharged battery, refer to Chart 1, Model 50A1-6M36, or Chart 2, Model 75A1-6M36. Match the ampere-hour capacity of the battery with the number of cells to obtain the approximate charging time in hours. Discharged batteries of less than 100% require less charging time.

### Example:

Charging a 6-cell 600 ampere-hour battery that is 100% discharged using Model 50A1-6M36 (refer to Chart 1) would require approximately 16-1/2 hours charging time. The same battery using Model 75A1-6M36 (see Chart 2) would require less charging time.

### Battery AH

Cells	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
6	8	8.5	9	10	11	11.5	13	14	15	16.5	17.5	19	20.5	22	23	24
12	8	9	10	11.5	12.5	14	15.5	17	18.5	20	21.5	23				
18	8	10	12	14	16	18	20.5	22.5								
24	8	11	13.5	16.5	19	22										
36	8	14.5	18.5	22												

Approximate charging time in hours

Chart 1. Model 50A1-6M36

### Battery AH

Cells	225	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350
6	8	8.25	8.5	9	9.5	10	10.5	11	11.5	12.5	13.5	14	15	15.5	16	17	18	19	19.5	20.5	21	22.5	23	24
12	8	8.25	9	9.5	10.5	11.5	12	13.5	14	15	16	17	17.5	19	20	21	22	23	24					
18	8	8.5	9.5	11	12.5	13.5	15	16.5	18	19.5	20.5	22.5	24											
24	8	9	11	13	15	17	19	21	22.5	24														
36	8	9.5	13	16	19	22	24																	

Approximate charging time in hours

Chart 2. Model 75A1-6M36

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