

# Battery Chargers - ABC & HDM Series



ABC 12-25



ABC 12-8

## ABC Series

The ABC Series chargers have been in the Newmar line for 30 years. They utilize time tested SCR charging circuitry, individually sensing and regulating each of 2 isolated battery banks, allowing the user to leave the charger operating indefinitely, even under no-load conditions without fear of overcharging. These chargers are ideal for vehicles which have an intermittent demand for battery power.

*(For battery systems which require high continuous output, see our Phase Three Chargers on pages 20-21)*

These chargers are housed in a rugged, black anodized aluminum, heat-sink case which extracts heat without introducing dust & moisture to the inside of the unit.

The rugged and reliable ABC charger is employed in hostile environments throughout the world; in mining equipment, emergency service vehicles and rugged off-road applications.

All ABC chargers feature a total output ammeter, on-off power switch, power "on" indicator light, 115/230 VAC input voltage selector switch, factory installed AC power cord with molded plug and shock-resistant rubber mounting grommets. Circuit boards are polyurethane conformal coated for corrosion resistance and all are protected against overheating by an automatically resetting thermal switch.

**Duty Cycle Ratings:** Rated Charging Output 20 min., derate to 50% for continuous output

**Operating Temperature:** 0-40°C

**Float Voltage:** 13.4 VDC

## Features

- Total output ammeter
- Dual independently regulated output banks
- On-off switch and power "on" indicator light
- Vibration absorbing mounting grommets
- Anodized aluminum case
- 115/230 VAC input selector switch
- Auto-reset thermal breaker
- Conformal coating of circuit board

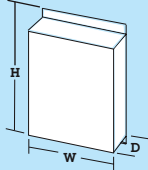
## Specifications

Model	Input		Output		
	Volts	Amps*	Volts	Banks	Amps
ABC 12-8	105-125 VAC or 210-250 VAC	1.5/.75	12	2	8
ABC 12-25	50-60Hz	5/2.5	12	2	25

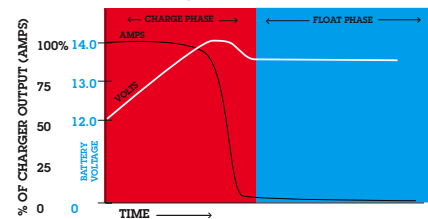
\*@ Full Load

## Case Size

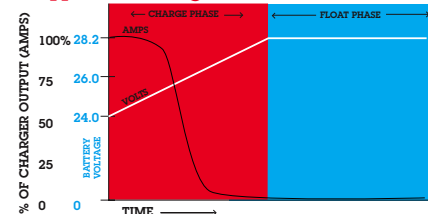
Model	Inches			Centimeters			Weight	
	H	W	D	H	W	D	(Lbs)	(Kg)
ABC 12-8	8.0	6.0	4.2	20.3	15.2	10.6	9	4.1
ABC 12-25	11.9	4.7	6.2	30.2	11.9	15.8	14	6.4



## Typical Charge Curves ABC Series



## Typical Charge Curves HDM 24-35



### Case:

11.9"H X 10.5"W X 7.8"D;  
30.2 X 26.7 X 19.8 cm  
(with drip shield, add 1.25" to height dim.)  
**Weight:** 45 lbs., 20.5 Kg.  
**Temperature Rating:** -18 to + 50° C



## HDM 24-35

Rugged and reliable ferro-resonant transformer provides high continuous output from a wide AC input range of line voltage. Automatic self-limiting characteristic is ideal for applications with periodic high continuous 24 VDC power requirements, followed by a longer interval of little or no load, allowing for full battery recovery. (For applications requiring high continuous demand coupled with quick recovery capability, use PT 24-40 on pages 20-21.)

**Input:** 80-140 VAC, 60 Hz., 11 amps max.

**Output:** 28.2 VDC (float voltage @ no load), 2 Banks, 35 amps continuous (@ 24.0 VDC)



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