

# UNIVERSAL BATTERY CORPORATION

## Dual-voltage, Regulated, Sealed Lead-Acid Battery Chargers

### 12BC0500D-1

UBC's top-of-the-line chargers are designed to maintain maximum performance from your batteries. These chargers feature dual-voltage output, and regulated current control to insure that no damage occurs during charging or while the battery remains on the charger. The charger is provided with screw-terminal outputs, allowing the user to attach any type of output cable they desire. Cables with various connectors can be supplied by UBC at extra cost.

The 12BC0500D-1 charger begins its charge cycle on "fast-charge", providing the battery with constant voltage of 15VDC, and regulated current of 500mA. This charge cycle is indicated by the red LED. As the charging cycle progresses, the terminal voltage of the battery will rise to an eventual 15VDC. At this point, the charger senses this voltage, and the fast-charge circuit cuts-off, also turning off the red LED. The "float-charge" circuit then comes on along with the green LED, providing the battery with a constant voltage of 13.8VDC. This voltage can be left on the battery indefinitely without damage, and keeps the battery fully charged, ready for use at all times.

PRIMARY	Voltage	120VAC, 60Hz, +/- 15V	
	Exciting Current	45mA	
	Rated Input Power	14VA	
	DC Resistance	82 ohms +/- 10%	
OUTPUT:		Float	Fast-Charge
	Voltage	13.6-13.8Vdc	14.8-15VDC
	Current	30mA	550mA Max.
INSULATION RESISTANCE	Primary-Secondary	100M ohm @ 500Vdc	
	Primary-Core	100M ohm @ 500Vdc	
DIELECTRIC STRENGTH	Primary-Secondary	1500Vac for 1 min.	
	Primary-Core	1500Vac for 1 min.	
	Secondary-Core	1500Vac for 1 min.	
TEMPERATURE RISE		Max. 75 Degree C @ rated load	

GREEN LED "on": Power is on to the charger

RED LED "on": Charger is in "FAST CHARGE" mode.

GREEN LED "on": Battery is charged for use, and the "float" charge is operating.