

S E R V I N G T H E N A V Y F O R O V E R 6 0 Y E A R S



PULSED BATTERY CHARGER SYSTEM

————— TYPE BC 48-400 —————

MARINE ELECTRIC SYSTEMS, INC., is proud to introduce its' 21st century "Type BC48-400, Pulsed Battery Charger System." As part of the automatic operation, this user-friendly system develops a proprietary charging profile, unique only to this family of battery charging systems. Through the incorporation of today's state-of-the-art "pulse design and soft switching" technology, problems associated with systems utilizing older technology have been virtually eliminated.

BACKGROUND:

Typically, systems utilizing older technology, e.g., transformers, rectifiers and current limiters, have found that the useful surface area of the battery plates, become reduced, due to sulfide build up. The result of this "sulfide plating" effect directly reduces the battery's amp/hour rating, life expectancy and efficiency, to as much as 50% less than batteries not subjected to the plating. To overcome these deficiencies, the U.S. government and NASA have reverted to pulse charging (also known as "reflex charging), in order to extend the life of many types of batteries, particularly lead acid types.

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INTELLIGENT SYSTEM OPERATION:

By incorporating pulse charge technology, the Type BC48-400, operates by inducing a large current, followed periodically by a depolarizing pulse or negative charge, of a short duration. This process reduces the chemical reaction of sulphur build up on the cell plate surfaces, thereby increasing the charge absorbing ability of the battery. In addition, the depolarizing pulse *decreases* the gas build up around the plates, *increasing* current capacity. Simultaneously, the system electronically interrogates the battery's electrical charge characteristics for any internal leaks or shorts. If damage is detected, the operator is alerted via a visual indicator lamp on the front panel.

FEATURES:

- Fully Automatic
- 50% Faster Charge Rate
- Short Circuit & Reverse Polarity Protection
- Built-In Battery Reconditioning (desulfate)
- Three Stage Automatic Rapid Charging
- Lightweight & High Efficiency
- Charging Complete Indicator
- 400A Rated (440VAC Line Voltage)
- AC Compensation Due To Power Factor Regulator
- High Frequency Power Conversion
- Three Charge Rates (low, medium & high)
- Spike Voltage Protection

SPECIFICATIONS:

- Single Phase AC Input Power – 220VAC or Optional 440VAC
- DC Output Power – 12 to 48VDC
- Dimensions –
 - Height = 35" (includes wheels & handle)
 - Width = 15" ** Depth = 19" ** No. Wheels = 6"
 - Weight = 55 lbs



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