

BALMAR MAX CHARGE REGULATOR

MC-524 (24 VDC)

The Most Technologically Advanced Marine Regulator Available – *Microprocessor-Based Controller*
Ready to use 'as is' right out of the box – Installation is as simple as plugging it in.



- **Preset Charging Programs** – For Optimum Battery Performance
Basic Program (Default) works well with most battery types, however the MAX CHARGE permanent memory carries specific charging parameters for each type of marine battery. Select your battery type using simple dip switches. (Preset charging data for various battery types is shown in Table 'A' below)
- **Automatic Absorption Time** – For Extended Battery Life & Reduced Time of Charge
If your batteries were already charged, absorption time is reduced. If discharged, time is extended.
- **Start Delay** - Eliminates Alternator Drag on Stator
A 45 second delay gives the engine a chance to develop oil pressure before alternator load is applied.
- **Ramp Up** – Belt Saver Feature
After the 45 second start delay, a one minute soft start ramp up allows belt to seat and engine to accept load.
- **LEDs** – For Regulator Status and Diagnostics
'Easy to see' lights indicate mode status, program modification acceptance, and assist in troubleshooting.
- **Battery Equalization** – For Battery Conditioning
Available for battery types which accept these higher charge voltages.
- **Alarm Output** – For Warning LED, Light, or Audio Alarm
Supplies a 1/2 amp negative output for sensing high / low battery voltage, thrown belt, system malfunction, or temperature setting violations (if optional temperature sensors are being used).
- **Temperature Sensing** – Optional Monitors for Alternator and Battery Temperature
Monitors & compensates, reducing field current with excessive alternator heat and adjusting voltage for battery overheating.
- **Inverter Load Sensing** – Heavy Load Circuit Recognition
Increases available amperage, even when in the 'float' mode.
- **Amp Manager** – For Tailored & Increased Engine Power – A Belt Saving Feature
Capable of eliminating the top 25, 50, or 75% of maximum alternator output. A toggle switch allows temporary cut back of alternator output when a large load is applied.
- **Advanced Programming** – For Optional Modification of Parameters & Values
The dip switches are used for modifications. Permanent memory protects original factory programs.

MC-524 PRESET PROGRAMS – Table 'A'

PRG-B	Primary Prog. Settings	PRG-1	PRG-2	PRG-3	PRG-4	PRG-5	PRG-6
Base/Default Program	Mode	Flooded Lead Acid (Deep Cycle)	Gel (Prevailer)	AGM (Lifeline)	Spiral (Optima)	Flooded Lead Acid (Standard)	Halogen Lamp / Volt Sensitive
<i>All Switches OFF</i>	<i>Note: All values user adjustable. See Advanced Programming</i>						
45	Start Delay (Seconds)	45	45	45	45	45	45
60	Ramp Up (Seconds)	60	60	60	60	60	60
28.40	Bulk (Max Voltage)	29.20	28.20	28.76	29.20	28.80	28.00
0.5 Hr	Voltage Analysis Time	0.5 Hr	0.5 Hr	0.5 Hr	0.5 Hr	0.5 Hr	0.5 Hr
27.80	Absorption Voltage	28.80	27.80	28.36	28.8	28.40	27.60
0.2-2 Hr	Absorption Time (Auto)	0.2-3 Hr	0.2-2 Hr	0.2-2 Hr	0.2-2 Hr	0.2-3 Hr	0.2-4 Hr
0.2-25 Hr	Absorption Time (Man)	0.2-25 Hr	0.2-25 Hr	0.2-25 Hr	0.2-25 Hr	0.2-25 Hr	0.2-25 Hr
27.00	Float Voltage	26.70	27.40	26.76	26.80	26.80	27.00

* Program 7 is reserved for factory diagnostics

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