

SPECIFICATIONS:

PART #		MCA RES @ 25/	RES		Approx Dimension - Inches(mm)		WARRANTY MONTHS		TEDMINAL	BATTERY	
			@ 25A		Length	W idth	Height	FREE REGULAR	FREE COMMERCIAL	CONFG.	HOLD DOWN
	MAGNACHARGE 12V MARINE STARTING/DUAL PURPOSE										
24M-650	MS24M-650	600	70	N/A	10.25 (260)	6.77 (172)	8.66 (220)	18	6	М	B1
24M-800	MS24M-800	750	105	N/A	10.25 (260)	6.77 (172)	8.66 (220)	24	6	М	B1
24M-1000	MS24M-1000	950	140	N/A	10.25 (260)	6.77 (172)	8.66 (220)	30	6	М	B1
27M-1000	MS27M-1000	1000	160	N/A	11.89 (302)	6.77 (172)	8.66 (220)	30	6	М	B1
	MAGNACHARGE 12 VOLT AGM DEEP CYCLE										
24DC-140AGM	MS24DC- 140AGM	900	140	75	10.23 (260)	6.85 (174)	8.66 (220)	20	12	М	B1
27DC-180AGM	MS27DC- 180AGM	900	175	90	11.89 (302)	6.85 (174)	8.66 (220)	20	12	М	B1
31DC-205AGM	MS31DC- 205AGM	1140	200	100	13.07 (332)	6.77 (172)	9.09 (231)	20	12	М	N/A
	MAGNACHARGE 12V DEEP CYCLE										
24DC-130	MS24DC-130	700	120	80	10.12 (257)	6.77 (172)	8.66 (220)	18	6	М	B1
24DC-140	MS24DC-140	850	140	85	10.12 (257)	6.77 (172)	8.66 (220)	18	6	M	B1
27DC-180	MS27DC-180	925	175	105	11.89 (302)	6.77 (172)	8.66 (220)	18	6	М	B1
31DC-205	MS31DC-205	1000	195	120	12.99 (330)	6.77 (172)	9.53 (242)	18	6	М	B0
	MAGNACHARGE 6V, 8V, 12V DEEP CYCLE										
GC-225	MSGC-225	N/A	440	220	10.30 (262)	7.11 (181)	11.07 (281)	18	12	LPT	N/A
GC8-875	MSGC8-875	N/A	300	156	10.21 (259)	7.06 (179)	11.14 (283)	18	12	LPT	N/A
GC-12V	MSGC-12V	N/A	260	140	12.96 (329)	7.13 (181)	10.71 (272)	18	12	LPT	N/A

BATTERIES FOR MARINE & RV

Features	Benefits
Dual Purpose Plate(Starting & Deep Cycling)	Longer Life & High Cycle Stability
- X-Frame (Pos. / Neg.)	- High endurance in deep cycle service
- Special (Thicker) Plate with high density active material	- Flexible design for semi-traction (deep cycling) and starting
- Calcium + High Tin Alloy	- Prevents internal short circuits
- Special tissue & Micro Fibre	- More power to terminal posts
	- Reserves more electrolyte volume over the plate
Vibration Resistant Design	
- Low resistance enveloped separator with Glass Mat	
- Hot melt glue	Built to withstand vibration of marine, 4WD and heavy
- Reinforced container	vehicle use

X-Frame (Pos. / Neg.)

Full Framed Grid (Round edge design)



- Full Framed Grid design restrains grid growth and short-circuits Benefit: Upgraded quality, and longer life span

Unique designed grid for electric flow

Mechanically punched grids, ensures high electric conductance and strong adhesion of active materials
Benefit: Providing higher starting power, stable structure, and less corrosion



Upgraded Active Material

 Provides high endurance in deep cycle service



Low Resistance Enveloped Separator with Fleece

- Prevents internal short circuits between positive and negative plates

Common Structure & Advantage (Marine & RV)

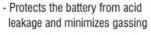
Convenience and stability

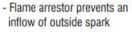
Ergonomically Designed Handle

- Provides easy transportation and installation



Special Sealed Cover







Excellent Performance

Hot Melt Glue to resist vibration

 Ensures resistance to outside impact and vibration, and minimizes loss of active materials



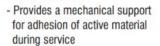
Magic Eye Indicator

- Easy to check Charging-State

Marine Twin (Dual=SAE/Wing-Nut) Terminal

- Quick connection
- Compatibility with TOP POST and STUD

Special Tissue







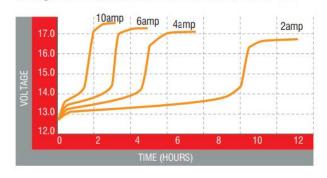
■ 5/16 " -18 THREADS



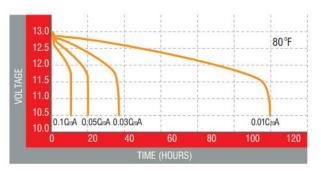
BATTERIES FOR MARINE & RV

Charge and Discharge Charateristics

Charge characteristics from 20% DOD, 31DC-205



Discharge characteristics



Charging Method

- Batteries should be recharged immediately after use
- Charging times vary and rate can be determined by the SOC(State Of Charge)

Method 1; Constant Voltage Charge (Recommended Method)

Туре	Voltage Setting		
Daily Cycle Service	14.4~14.8		
Floating Service	13.2~13.7		
Equalizing	15.5		

* Unit Average at 77 °F (25 °C)

 Every 30 to 90 days, perform an equalizing charge.
Daily cycle use and deep discharge requires more frequent equalizing

End of charge

- Current : below 1.0A during charge

- Stabilized open circuit voltage: 12.75V or higher

Method 2; Constant Current charge

	Battery	24DC140	31D205	
SOC	OCV	4.0A	4.5A	5.0A
100%	12.75V		-	
75%	12.40V		6 Hrs	
50%	12.20V		12 Hrs	
25%	12.00V		18 Hrs	
0%	11.90V		24 Hrs	

End of charge

- Maximum voltage output across the battery terminals is maintained at constant level for 2 hours during the charge
- Stabilized open circuit voltage: 12.75V or higher

Hours of Usable Power(H.U.P)					
Amp.Draw	5A	15A	25A		
24DC140	15.4Hrs.	4.3Hrs.	2.4Hrs.		
27DC180	17.8Hrs.	4.9Hrs.	2.7Hrs.		
31DC205	20.0Hrs.	5.6Hrs.	3.1Hrs.		