

LEAD ACID (DEEP CYCLE) BATTERY

MD200-12

Marvel MD series is specially designed for frequent discharge deep cycle applications. By using the specially designed active material, strong grids and thick plate construction, the series battery offers reliable performance in high load situations and could provide competitive cycle performance.

Suitable for electric vehicles and golf carts; industrial equipment, floor machines, forklifts, aerial lifts, and robotics; marine, RV, and no-idle solutions; mobility and medical equipment; and most outdoor application.



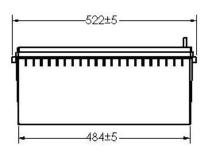


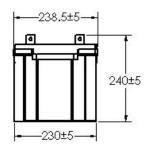


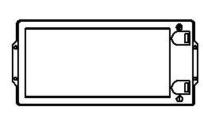












CONSTRUCTION: •Positive and negative plates in lead-tin Calcium alloy. •Separator – low resistance micro porous Absorptive Glass Mat. •The electrolyte is absorbed within this material, preventing acid leakage in case of accidental damage. •Terminals with copper provide maximum conductivity. •Self regulating pressure relief valve.

- •100% online High rate discharge testing during manufacturing. •Good packaging material.
- •Specially suited for UPS & Power Application

FEATURES :

- Sealed Maintenance Free. Eco Friendly. Minimal Voltage drop. Easy Handling-Easy Installation.
- •Ready to Use. •Good Service Life. •Low Self discharge. •Charge Retention & Recovery.
- •Good High Rate Discharge. •High Reliability.

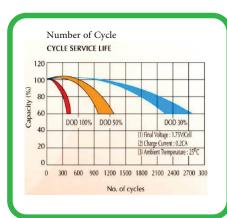
Performance Characteristics confirming to JISC:8702

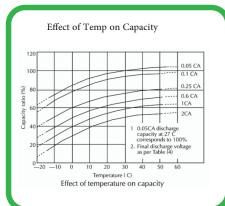
SPECIFICATION CHART:

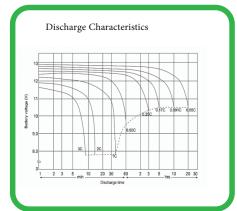
Battery Type	Nominal Voltage(V)	Rated Capacity(Ah) at 25 °C				Dimensions (mm)			Weight
		20hr 1.75V/Cell	10hr 1.75V/Cell	5hr 1.7 5 V/Cell	1hr 1.75 V/Cell	Overall Height ±5	Length ±5mm	Width ±5mm	(Kg) (±5%)
MD-200	12	200	186	170	118	240.0	522.0	238.5	61.0

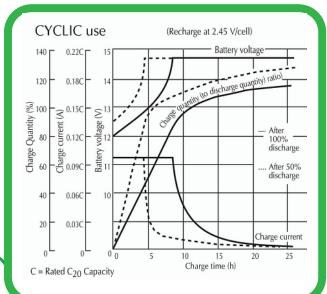
NOTES OF OPERATION

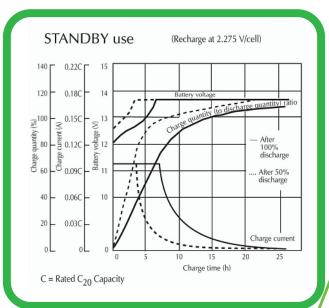
Mode of operation	Voltage setting per 12V Unit for ambient Temp. 20 -30°C	Current Setting		
FLOAT	13.7±0.1V	Maximum:0.3CA		
CYCLE	14.7±0.1V	Minimum:0.1CA		

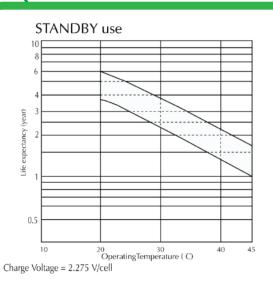


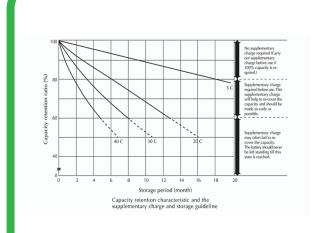












Product Details					
AH Efficiency	>95%				
WH Efficiency	>84%				
Operating Temperature Range	(-)5°C to 40°C				
Self Discharge/Month @27°C	5% of Rated Capacity				
Recommended storage period	3 Months at 27°C				
Container Material	ABS				
Type of Positive & Negative Plate	Flat Pasted				
Recommended Terminal Torque	12N-m				

MAXIMUM DISCHARGE CURRENT FOR VARIOUS DURATION &

CUT OFF VOLTAGE AT 25°C

	DISCHARGE TIME							
End Voltage/Cell	10min	15min	30min	1hr	3hr	5hr	10hr	20hr
1.70	398.0	318.0	197.0	123.0	50.0	34.1	19.0	10.2
1.75	370.0	300.0	190.0	118.0	48.7	34.0	18.6	10.0
1.80	360.0	288.0	180.0	112.0	47.8	33.5	18.3	9.9



