

DC12-100S(12V100Ah)



Specification

Cells Per Unit	6
Voltage Per Unit	12V
Capacity	100Ah@20hr-rate to 1.75V per cell @25°C
Weight	63.5 lb. (Tolerance ±5%)
Internal Resistance	5m Ω max.
Terminal	Default F12(M8), F15(M6) & L4 Optional
Max. Discharge Current	1000A (5 sec)
Design Life	12 years
Max. Charging Current	30.0 A
Reference Capacity	C3 75.0Ah C5 85.0Ah C10 95.2Ah C20 100.0Ah
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



AGM BATTERY MAINTENANCE FREE

DC (Deep Cycle) series batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharging. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. The DC series batteries offer 30% more cyclic life than the standby series. It is suitable for solar and wind renewable energy storage, mobility and medical equipment and cable TV etc.



ISO 9001



ISO 14001



ISO 45001



UL1989



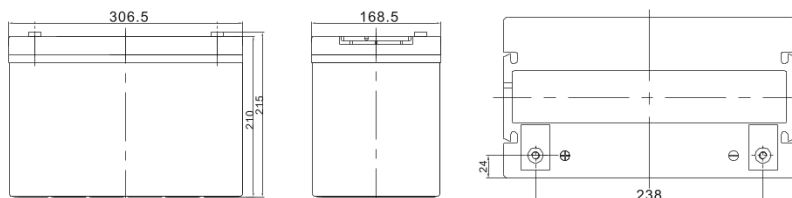
MH 28539



BSTXD210316008501EC

*Nuts and bolts included.

Dimensions



Length	306.5±2mm (12.1 inches)
Width	168.5±2mm (6.63 inches)
Height	210±2mm (8.27 inches)

*The glass mats are placed in between the battery plates, and these glass mats hold the electrolyte.

Constant Current Discharge Characteristics : A(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	223.8	180.9	107.8	60.74	36.17	28.17	22.10	18.80	12.06	10.00	5.183
1.65V	206.1	169.1	102.1	58.67	34.96	27.31	21.44	18.21	11.96	9.905	5.155
1.70V	191.0	159.1	96.83	56.79	34.03	26.15	20.78	17.72	11.77	9.714	5.090
1.75V	175.3	149.0	93.01	55.00	32.72	25.48	20.21	17.22	11.58	9.619	5.000
1.80V	159.5	136.4	89.58	52.56	31.60	25.00	19.74	17.00	11.39	9.524	4.952
1.85V	124.8	112.9	75.96	46.91	28.90	23.27	18.51	15.65	10.73	8.952	4.905

Constant Power Discharge Characteristics : W/Cell (25°C)

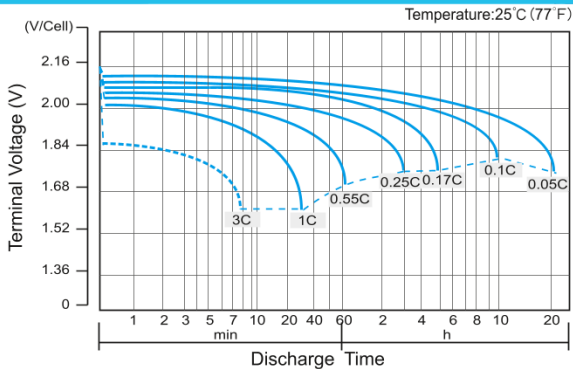
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	381.0	315.5	195.9	114.0	68.39	53.50	42.59	35.58	23.50	19.61	10.35
1.65V	366.9	306.8	191.3	112.1	66.54	52.17	41.56	34.62	23.31	19.42	10.25
1.70V	342.4	290.4	182.1	108.8	64.88	50.17	40.23	33.76	23.03	19.05	10.16
1.75V	318.6	274.1	175.7	105.8	62.57	48.93	39.29	32.99	22.65	18.86	9.977
1.80V	293.6	253.4	170.0	101.4	61.15	48.65	38.53	32.54	22.28	18.67	9.885
1.85V	232.9	212.9	145.8	91.10	56.31	45.38	36.27	30.10	21.05	17.63	9.792

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.
The battery must be fully charged before the capacity test. The C₂₀ should reach 95% after the first cycle and 100% after the third cycle.

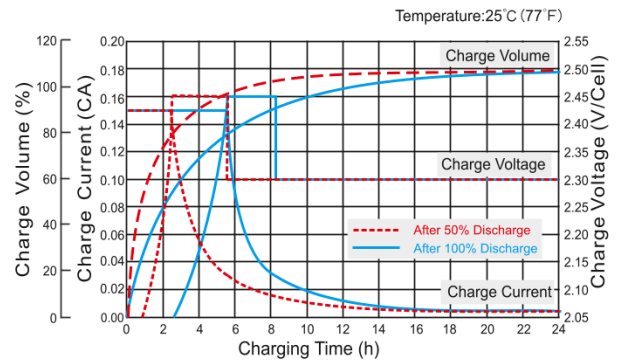
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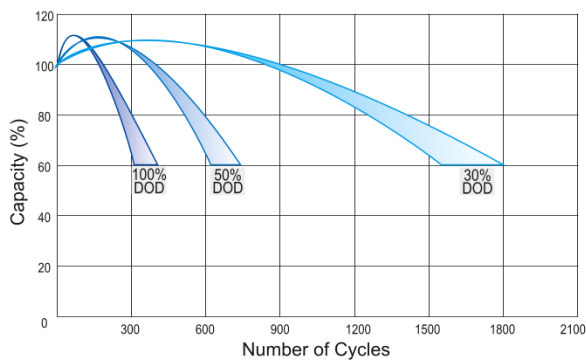
Discharge Characteristics Curve



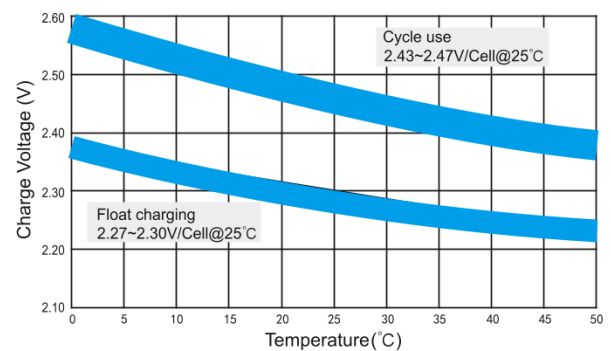
Charge Characteristic Curve for Cycle Use(IUU)



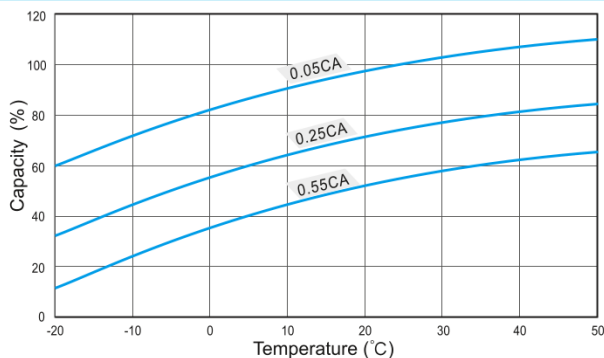
Cycle Life in Relation to Depth of Discharge



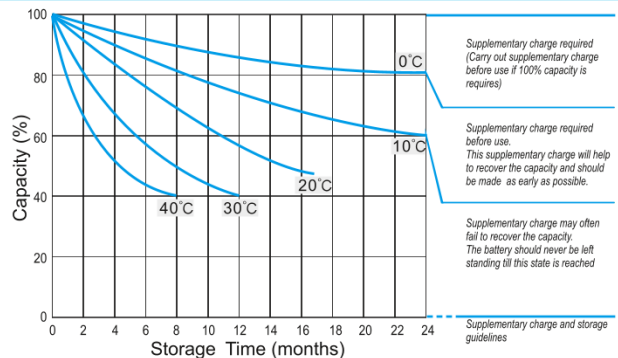
Relationship Between Charging Voltage and Temperature



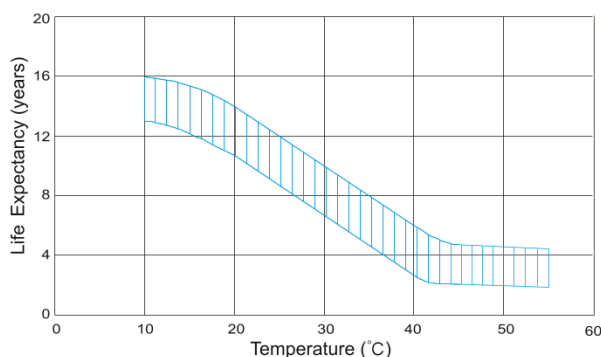
Temperature Effects on Capacity



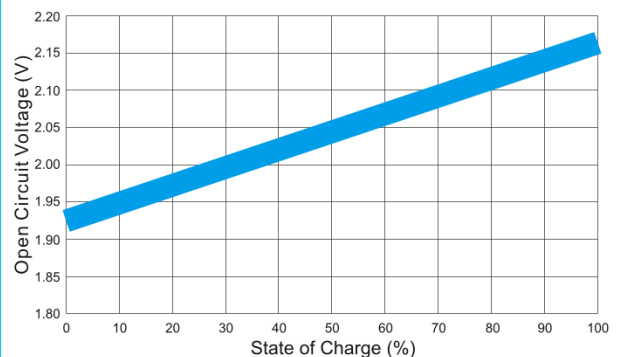
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)



(Note) All above information shall be changed without prior notice, RITAR reserves the right to explain and update the latest information.

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