DC12-260(12V260Ah)

RITAR®

Specification

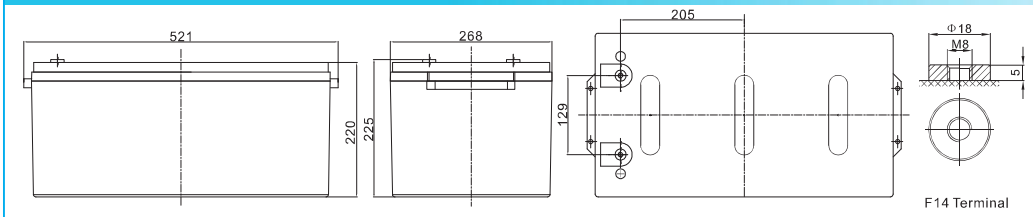
Cells Per Unit	6
Voltage Per Unit	12V
Capacity	260Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 70.0Kg (Tolerance±5%)
Internal Resistance	≤3.2mΩ(Full Charge Condition @25℃)
Terminal	Default F14(M8),L6 Optional
Max. Discharge Current	2600A (5 sec)
Design Life	12 years
Max. Charging Current	78.0A
Reference Capacity	C_3 195.0Ah C_5 221.0Ah C_{10} 247.6Ah C_{20} 260.0Ah
Float Charging Voltage	13.6 V~13.8 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃.Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

DC (Deep Cycle) series AGM 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 AGM 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

MH 28539 BSTXD2103160008501EC

Dimensions



Length	521±2mm (20.5 inches)
Width	268±2mm (10.6 inches)
Height	220±2mm (8.66 inches)
Total Height	225±2mm (8.86 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics :A(25℃)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	455.9	280.3	157.9	94.04	73.25	57.46	48.88	31.35	26.00	13.47
1.65V	426.3	265.5	152.5	90.89	71.00	55.74	47.34	31.10	25.75	13.40
1.70V	400.9	251.8	147.6	88.47	68.00	54.02	46.06	30.61	25.26	13.23
1.75V	375.5	241.8	143.0	85.07	66.25	52.55	44.78	30.12	25.01	13.00
1.80V	343.9	232.9	136.6	82.16	65.00	51.32	44.20	29.62	24.76	12.87
1.85V	284.5	197.5	122.0	75.14	60.50	48.13	40.69	27.89	23.28	12.75

Constant Power Discharge Characteristics : W/Cell (25℃)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	795.2	509.3	296.5	177.8	139.1	110.7	92.52	61.09	50.99	26.90
1.65V	773.2	497.4	291.4	173.0	135.6	108.0	90.02	60.61	50.50	26.66
1.70V	731.9	473.5	282.8	168.7	130.4	104.6	87.77	59.87	49.52	26.42
1.75V	690.8	456.9	275.0	162.7	127.2	102.2	85.77	58.90	49.03	25.94
1.80V	638.6	442.1	263.8	159.0	126.5	100.2	84.61	57.92	48.54	25.70
1.85V	536.5	379.2	236.9	146.4	118.0	94.3	78.26	54.74	45.84	25.46

(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 C_{20} should reach 95% after the first cycle and 100% after the third cycle.

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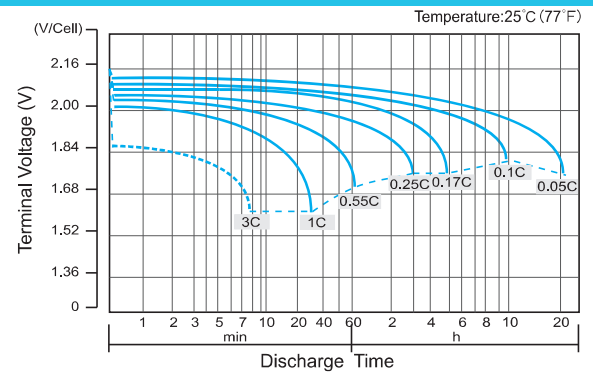
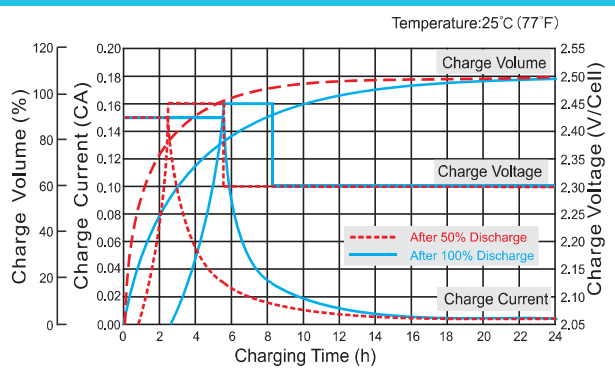
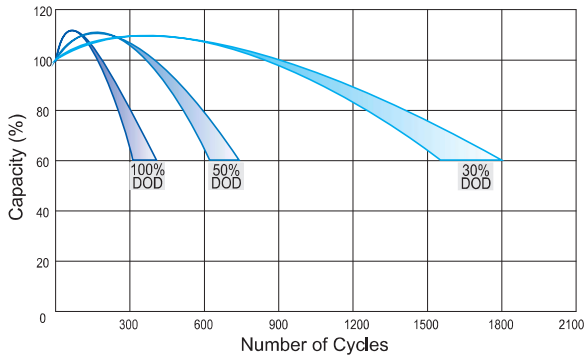
Discharge Characteristics Curve



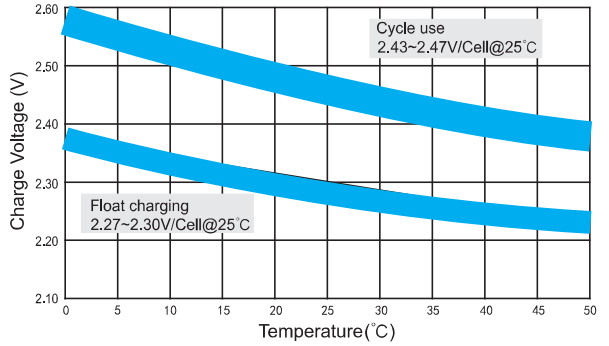
Charge Characteristic Curve for Cycle Use(IUU)



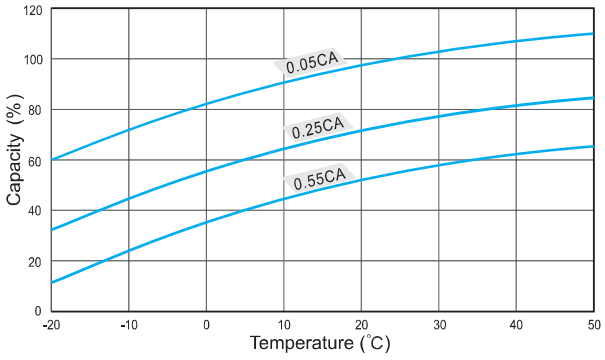
Cycle Life in Relation to Depth of Discharge



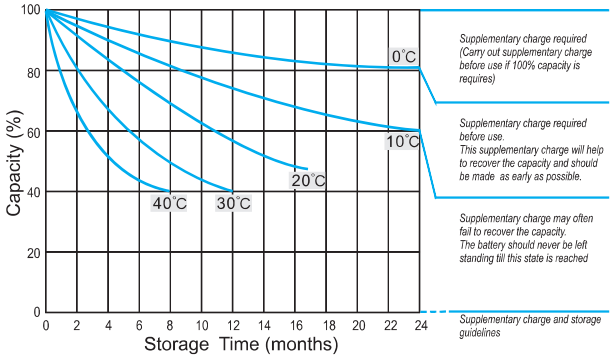
Relationship Between Charging Voltage and Temperature



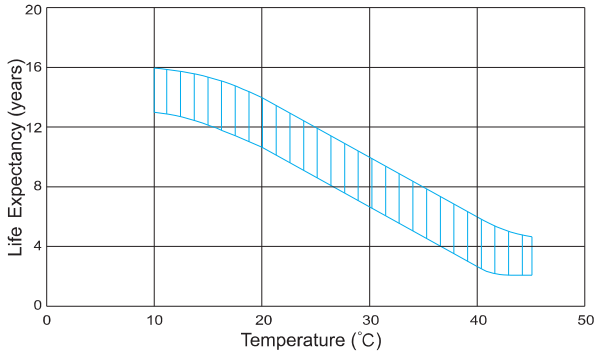
Temperature Effects on Capacity



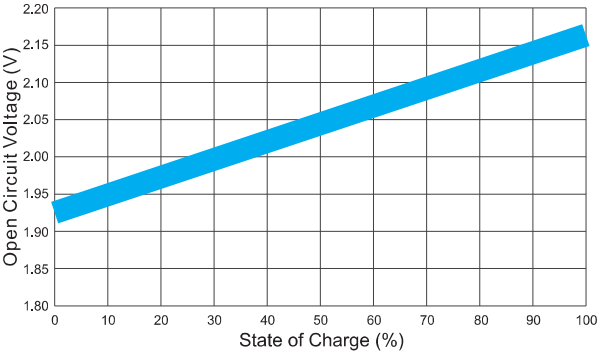
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



(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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