DC12-160(12V160Ah)

RITAR®

Specification

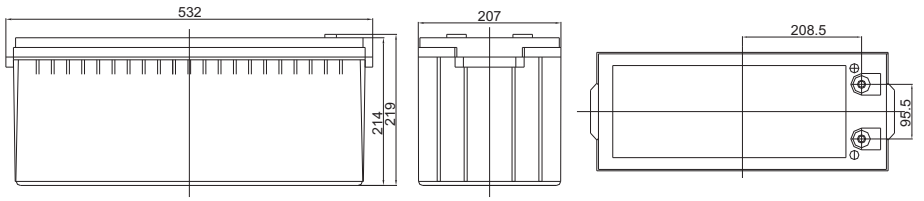
Cells Per Unit	6
Voltage Per Unit	12
Capacity	160Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 50.0 Kg (Tolerance±1.5%)
Internal Resistance	Approx. 4 mΩ
Terminal	F12(M8)/F16(M8)
Max. Discharge Current	1600A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	48.0 A
Reference Capacity	C3 118.8AH C5 134.0AH C10 152.0AH C20 160.0AH
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 batteries provide superior high integrity and reliability.It is specially designed for frequent cyclic charge and discharge.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 nergy storage,mobility and medical equipment,V,telecom,broadband and cable TV,UPS systems etc.

ISO 9001 ISO 14001 OHSAS 18001

MH 28539 G4M20206-0910-E-16

Dimensions



F12 Terminal

Length	532±2mm (20.9 inches)
Width	207±2mm (8.15 inches)
Height	214±2mm (8.43 inches)
Total Height	219±2mm (8.62 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	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	328.2	261.2	153.1	92.0	56.2	42.3	33.5	28.2	19.3	16.3	8.31
1.65V	317.2	253.4	149.9	90.3	55.3	41.7	33.0	27.9	19.0	16.2	8.24
1.70V	303.0	243.2	145.6	88.0	54.0	40.8	32.4	27.4	18.8	15.9	8.14
1.75V	283.9	229.4	139.8	84.8	52.3	39.6	31.6	26.8	18.4	15.6	8.00
1.80V	258.3	210.8	131.9	80.5	49.9	38.0	30.4	25.9	17.8	15.2	7.80
1.85V	223.5	185.2	120.7	74.3	46.4	35.6	28.7	24.6	17.0	14.6	7.52

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	587	481	293	181	112	85.1	67.7	57.3	39.6	33.8	17.2
1.65V	583	476	291	180	111	84.3	67.1	56.8	39.3	33.5	17.1
1.70V	563	461	284	176	109	82.8	66.0	56.0	38.7	33.1	16.9
1.75V	537	441	276	170	106	80.7	64.5	54.9	38.0	32.5	16.6
1.80V	497	411	263	162	101	77.7	62.3	53.2	36.9	31.6	16.3
1.85V	437	366	243	151	95.0	73.2	59.1	50.7	35.3	30.4	15.7

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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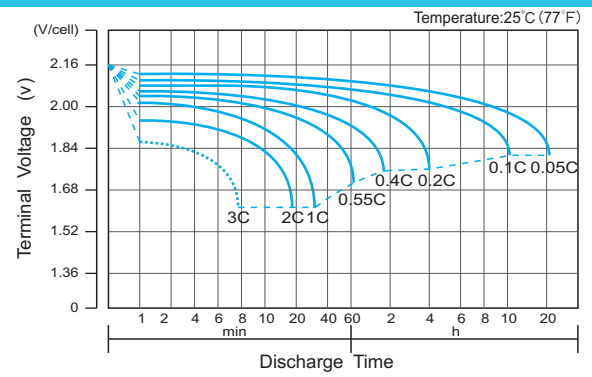
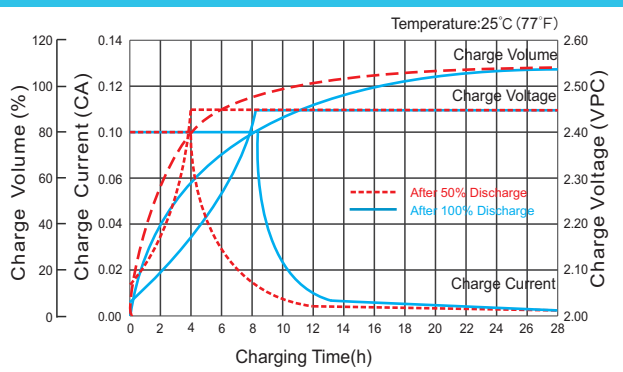
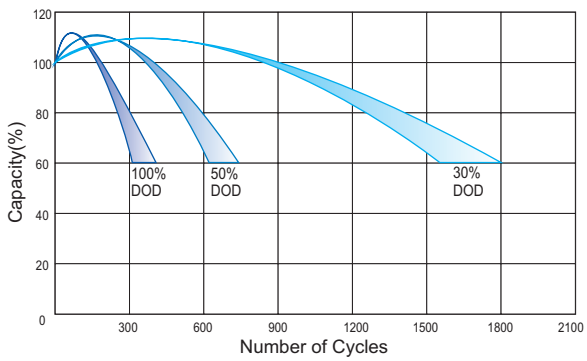
Discharge Characteristics Curve



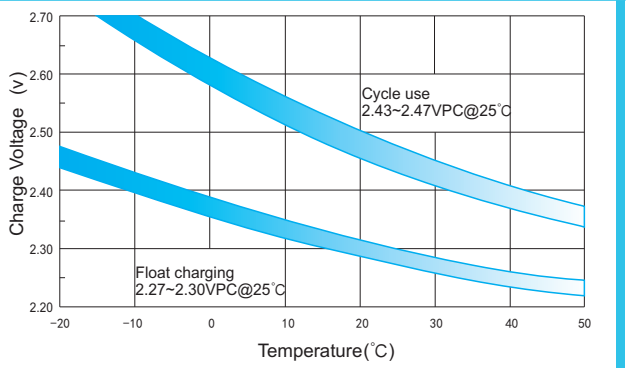
Charge Characteristic Curve for Cycle Use(IU)



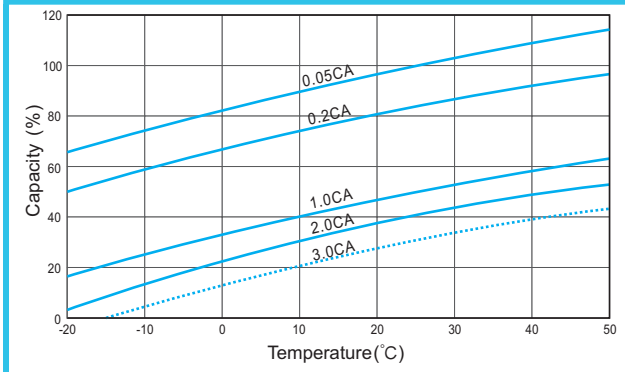
Cycle Life in Relation to Depth of Discharge



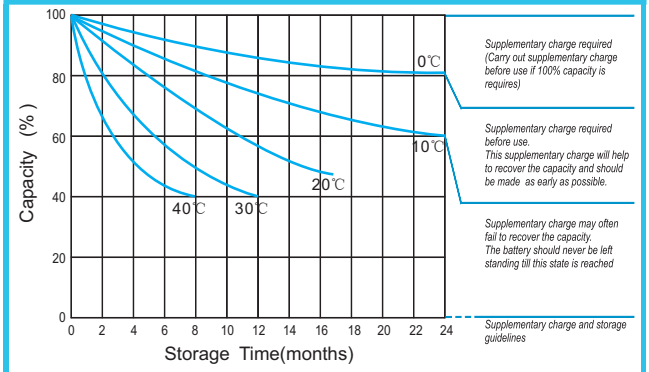
Relationship Between Charging Voltage and Temperature



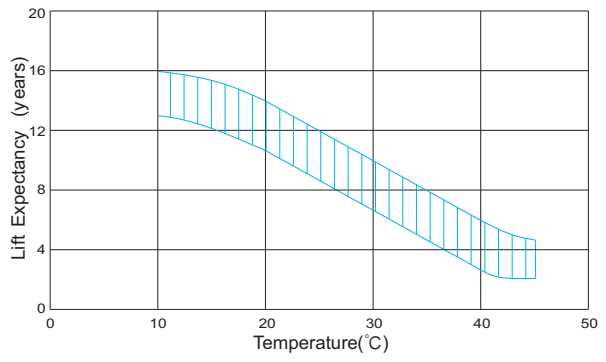
Temperature Effects on Capacity



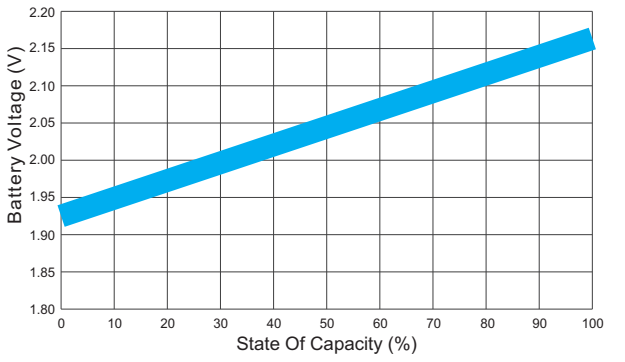
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



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