DC12-75(12V75Ah)

RITAR®

Specification

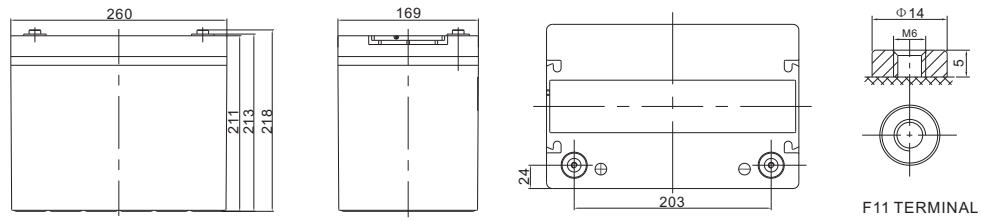
Cells Per Unit	6
Voltage Per Unit	12
Capacity	75Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 23.5 Kg (Tolerance±2%)
Internal Resistance	Approx. 5.8 mΩ
Terminal	F11(M6)/F15(M6)
Max. Discharge Current	750A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	22.5 A
Reference Capacity	C3 55.8AH C5 62.5AH C10 71.3AH C20 75.0AH
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



Length	260±2mm (10.2 inches)
Width	169±2mm (6.65 inches)
Height	211±2mm (8.31 inches)
Total Height	218±2mm (8.58 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	183.7	137.1	78.7	45.5	26.6	19.8	15.7	13.2	9.03	7.65	3.90
1.65V	177.6	133.0	77.0	44.6	26.2	19.5	15.5	13.1	8.93	7.57	3.86
1.70V	169.6	127.6	74.8	43.5	25.6	19.1	15.2	12.8	8.79	7.47	3.81
1.75V	158.9	120.4	71.9	41.9	24.7	18.6	14.8	12.5	8.61	7.33	3.75
1.80V	144.6	110.6	67.8	39.8	23.6	17.8	14.2	12.1	8.35	7.13	3.66
1.85V	125.1	97.2	62.0	36.7	22.0	16.7	13.4	11.5	7.97	6.84	3.52

Constant Power Discharge Characteristics : WPC(25℃)

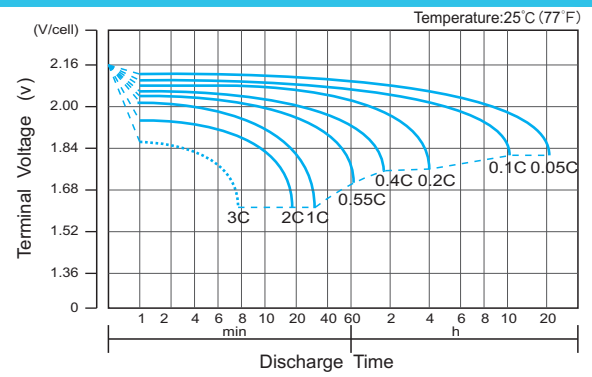
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	312	240	143	85.0	50.5	37.8	30.1	25.5	17.6	15.0	7.67
1.65V	310	237	142	84.3	50.0	37.5	29.9	25.3	17.5	14.9	7.62
1.70V	299	230	139	82.4	49.0	36.8	29.4	24.9	17.2	14.7	7.53
1.75V	285	220	135	79.9	47.6	35.9	28.7	24.4	16.9	14.5	7.41
1.80V	264	205	128	76.2	45.6	34.6	27.8	23.7	16.4	14.1	7.24
1.85V	233	183	119	70.8	42.7	32.6	26.3	22.6	15.7	13.5	6.98

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

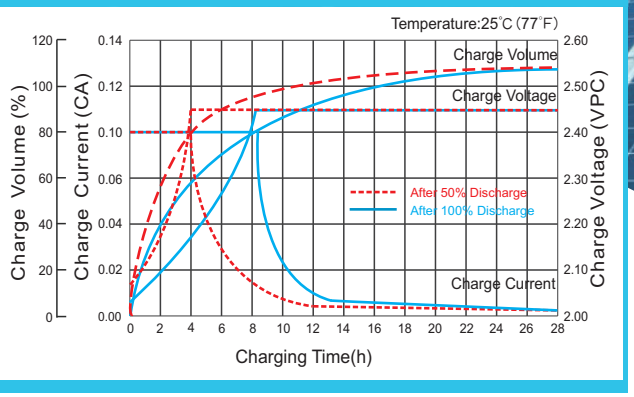
DC12-75(12V75Ah)

RITAR®

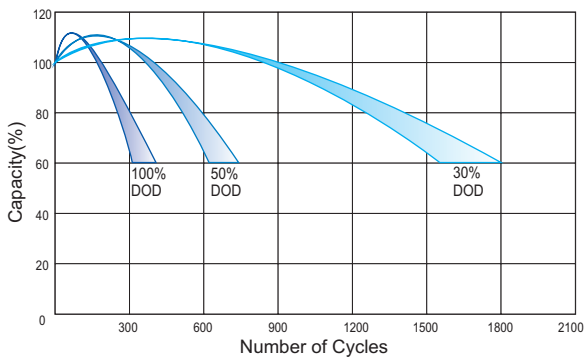
Discharge Characteristics Curve



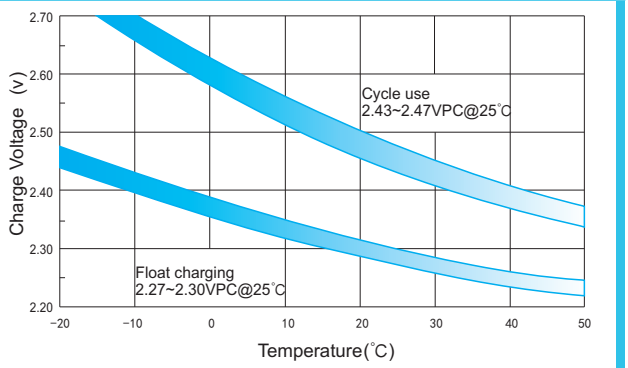
Charge Characteristic Curve for Cycle Use(IU)



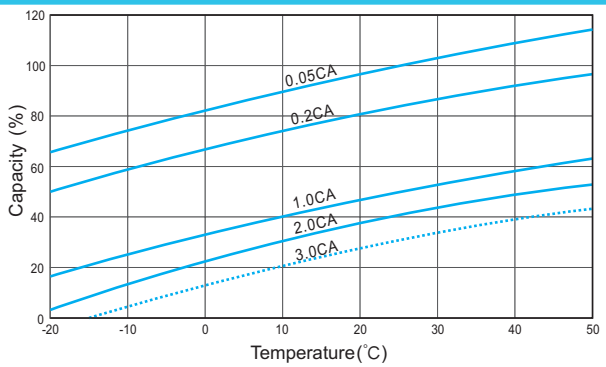
Cycle Life in Relation to Depth of Discharge



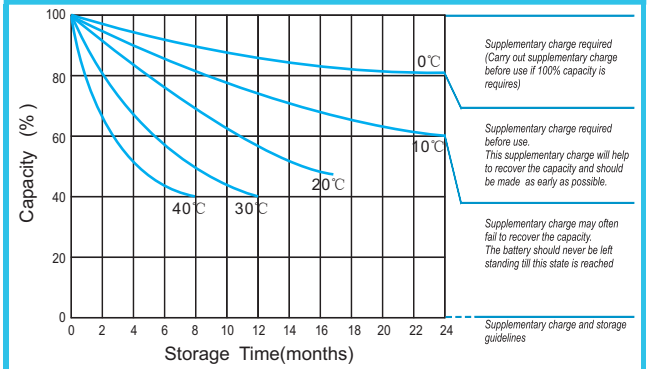
Relationship Between Charging Voltage and Temperature



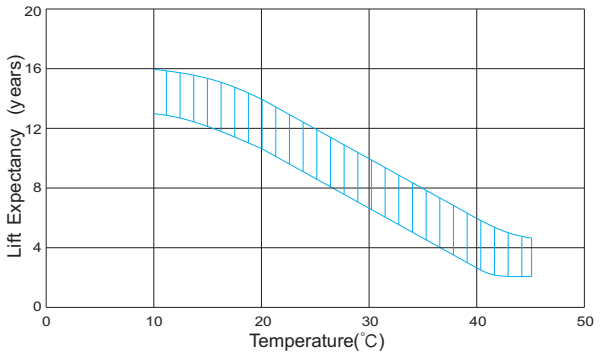
Temperature Effects on Capacity



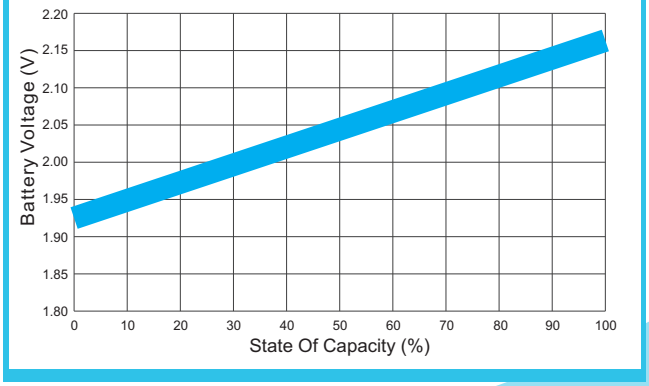
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



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

SHENZHEN RITAR POWER CO.,LTD.

URL: www.ritarpower.com

Add: 10th Floor, Tower C, 1st Building, Software Industry Base, No.81, Xuefu Road, Nanshan District, Shenzhen, Guangdong, China 518057

Tel: +86-755-33981668/83475380 Fax: +86-755-83475180 E-mail: sales@ritarpower.com Version 17B-0