DC12-40(12V40Ah)

RITAR®

Specification

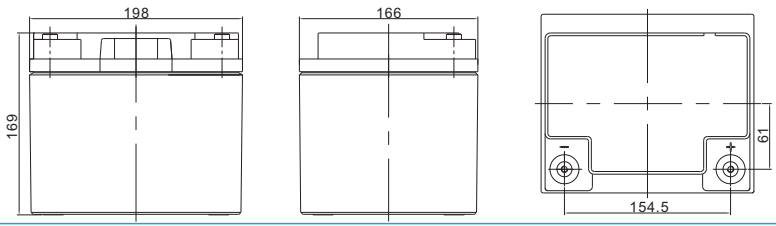
Cells Per Unit	6
Voltage Per Unit	12
Capacity	40Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 13.0 Kg (Tolerance±3%)
Internal Resistance	Approx. 8 mΩ
Terminal	F11(M6)/F4(M6)
Max. Discharge Current	400A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	12.0 A
Reference Capacity	C3 29.7AH C5 33.5AH C10 38.0AH C20 40.0AH
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.

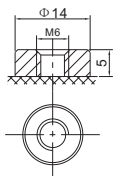
DC (Deep Cycle) series batteries provide superior high integrity and reliability.It is specially designed for frequent cyclic charge and discharge.By using strong grids,thick plate and specially active material are designed for repeated deep-discharge applications. The DC series batteries offer 30% more 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





F11 TERMINAL

Length	198±2mm (7.80 inches)
Width	166±2mm (6.54 inches)
Height	169±2mm (6.65 inches)
Total Height	169±2mm (6.65 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	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	133.2	98.0	73.14	41.96	24.24	14.20	10.57	8.37	7.05	4.81	4.08	2.08
1.65V	128.3	94.73	70.95	41.08	23.79	13.96	10.41	8.25	6.97	4.76	4.04	2.06
1.70V	121.9	90.47	68.07	39.91	23.18	13.64	10.19	8.10	6.85	4.69	3.98	2.03
1.75V	113.3	84.77	64.21	38.33	22.35	13.20	9.90	7.89	6.69	4.59	3.91	2.00
1.80V	102.0	77.14	59.01	36.16	21.21	12.59	9.49	7.60	6.47	4.45	3.80	1.95
1.85V	86.71	66.73	51.84	33.08	19.59	11.72	8.90	7.17	6.14	4.25	3.65	1.88

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	226	167	128	76.2	45.3	26.9	20.2	16.1	13.6	9.40	8.02	4.09
1.65V	223	165	127	75.7	44.9	26.6	20.0	15.9	13.5	9.33	7.95	4.06
1.70V	215	160	123	74.0	44.0	26.1	19.6	15.7	13.3	9.20	7.85	4.02
1.75V	203	152	117	71.8	42.6	25.4	19.1	15.3	13.0	9.02	7.71	3.95
1.80V	186	141	109	68.4	40.6	24.3	18.4	14.8	12.6	8.77	7.51	3.86
1.85V	161	124	97	63.2	37.8	22.8	17.4	14.0	12.0	8.39	7.22	3.73

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

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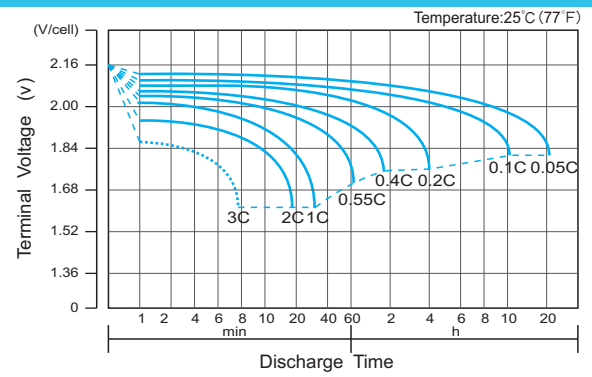
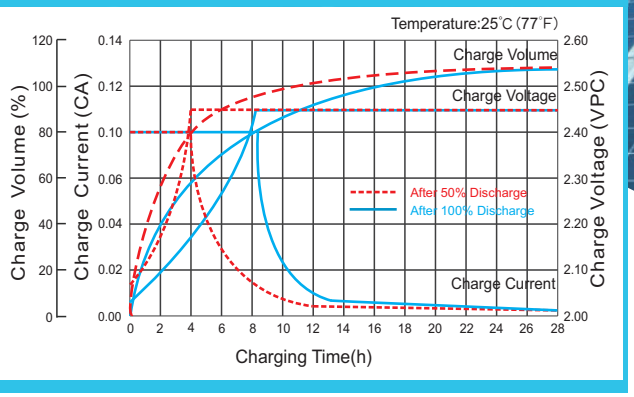
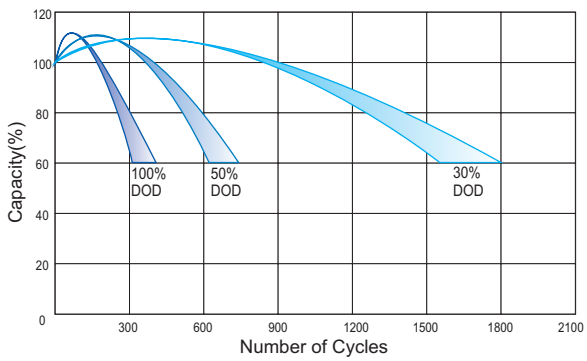
Discharge Characteristics Curve



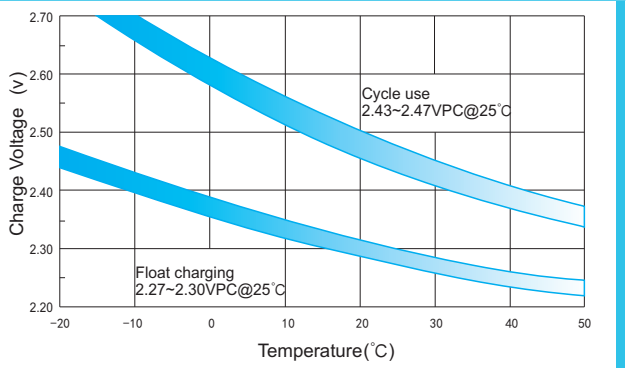
Charge Characteristic Curve for Cycle Use(IU)



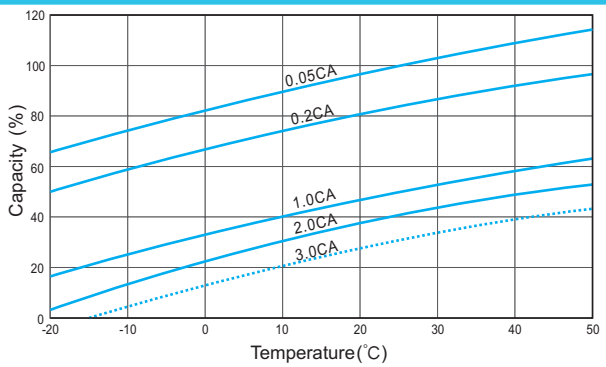
Cycle Life in Relation to Depth of Discharge



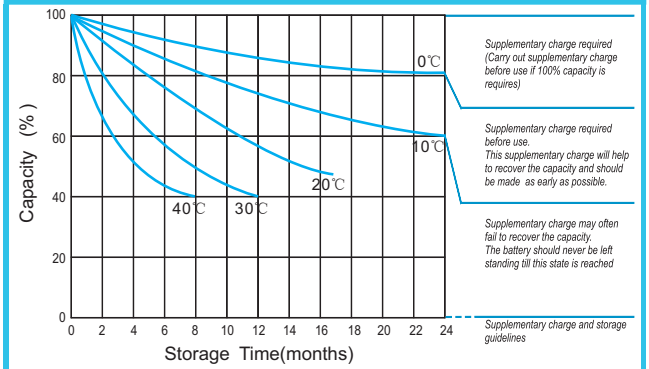
Relationship Between Charging Voltage and Temperature



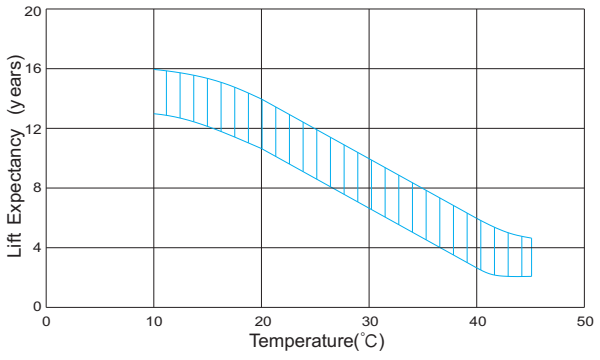
Temperature Effects on Capacity



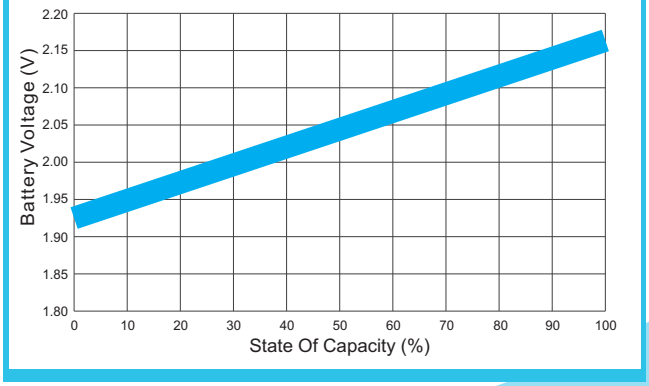
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



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