



RT6140(6V14Ah)

Specification

Cells Per Unit	3
Voltage Per Unit	6
Nominal Capacity	14.0Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 2.27 Kg (Tolerance ±5.0%)
Internal Resistance	Approx. 10.0 mΩ
Terminal	F1/F2
Max. Discharge Current	140A (5 sec)
Short Circuit Current	660A
Design Life	6~8 years (Float charging)
Max. Charging Current	4.20 A
Reference Capacity	C3 10.8AH C5 12.2AH C10 13.1AH C20 14.0AH
Standby Use Voltage	6.85 V~6.94 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.30 V~7.40 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
Normal Operating Temperature Range	25°C ±5°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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



RT series is a general purpose battery with 6~8 years design life in float service. It meets with IEC, JIS, BS, GB/T and YD/T standards. With advanced AGM valve regulated technology and high purity raw material, the RT series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security system applications.



ISO 9001



ISO 14001



OHSAS 18001

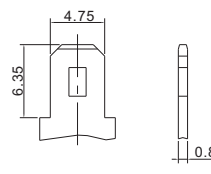
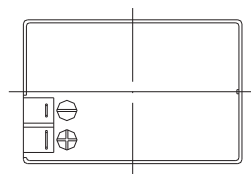
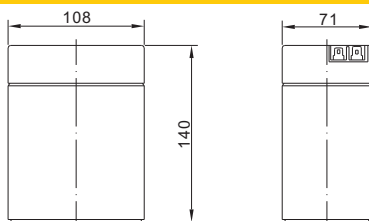


MH 28539



G4M20206-0910-E-16

Dimensions



F1 Terminal

Length	108±1.5mm (4.25 inches)
Width	71±1.5mm (2.80 inches)
Height	140±1.5mm (5.51 inches)
Total Height	140±1.5mm (5.51 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°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	53.12	37.54	27.14	15.59	8.554	5.252	3.948	3.187	2.641	1.700	1.380	0.729
1.65V	49.40	35.47	25.94	14.96	8.260	5.084	3.826	3.101	2.572	1.681	1.364	0.717
1.70V	44.57	32.66	24.30	14.30	7.992	4.917	3.722	3.017	2.505	1.655	1.343	0.709
1.75V	39.93	29.89	22.61	13.67	7.700	4.745	3.611	2.939	2.442	1.632	1.325	0.700
1.80V	35.06	27.06	20.88	13.07	7.405	4.575	3.499	2.855	2.379	1.604	1.309	0.693
1.85V	27.83	22.12	17.33	11.25	6.642	4.192	3.235	2.654	2.219	1.506	1.232	0.658

Constant Power Discharge Characteristics : WPC (25°C)

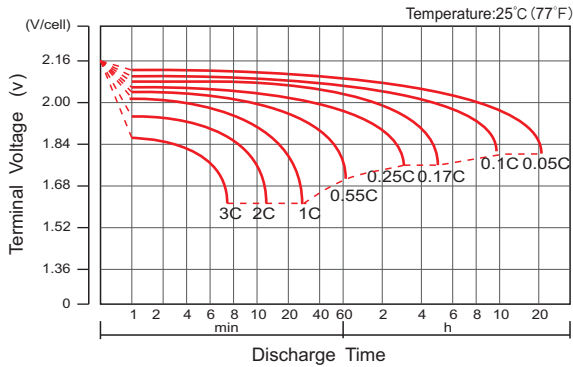
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	88.05	63.81	47.44	28.31	16.07	9.95	7.54	6.12	5.09	3.32	2.71	1.44
1.65V	82.83	61.46	46.03	27.46	15.61	9.68	7.34	5.98	4.98	3.29	2.68	1.41
1.70V	76.43	57.62	43.75	26.51	15.20	9.42	7.17	5.84	4.86	3.25	2.65	1.40
1.75V	70.00	53.69	41.31	25.60	14.73	9.13	6.99	5.71	4.76	3.21	2.62	1.38
1.80V	62.77	49.45	38.68	24.72	14.25	8.85	6.80	5.56	4.65	3.16	2.59	1.37
1.85V	50.88	41.13	32.55	21.50	12.86	8.15	6.31	5.19	4.35	2.97	2.44	1.30

(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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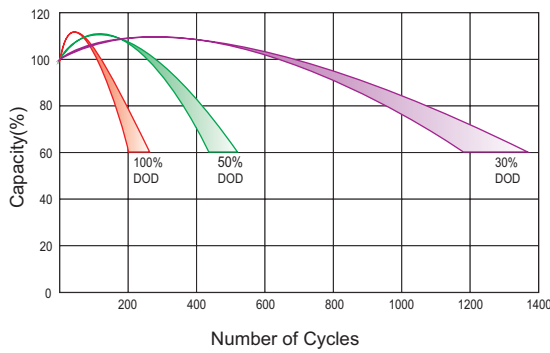
Discharge Characteristics Curve



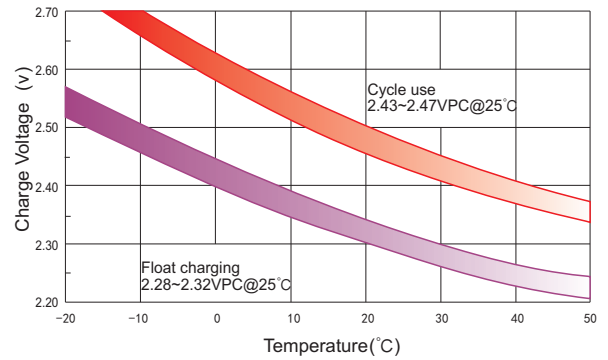
Charge Characteristic Curve For Standby Use



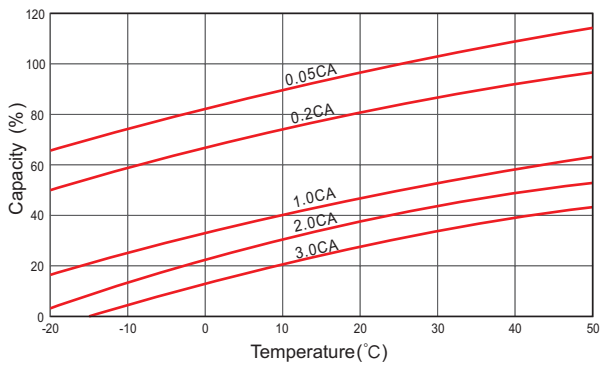
Cycle Life In Relation To Depth Of Discharge



Relationship Between Charging Voltage And Temperature



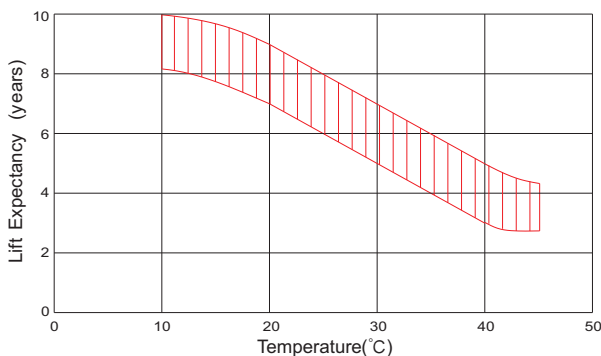
Temperature Effects On Capacity



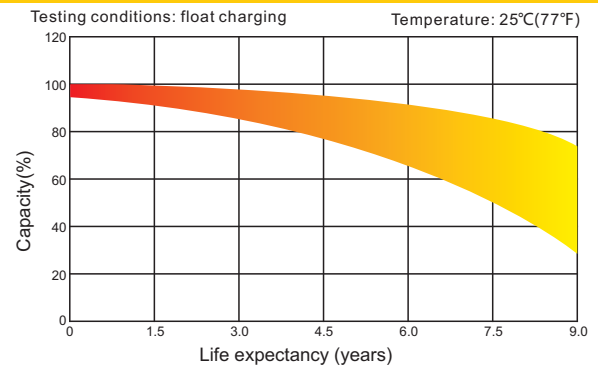
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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