



RT1245(12V4.5Ah)

Specification

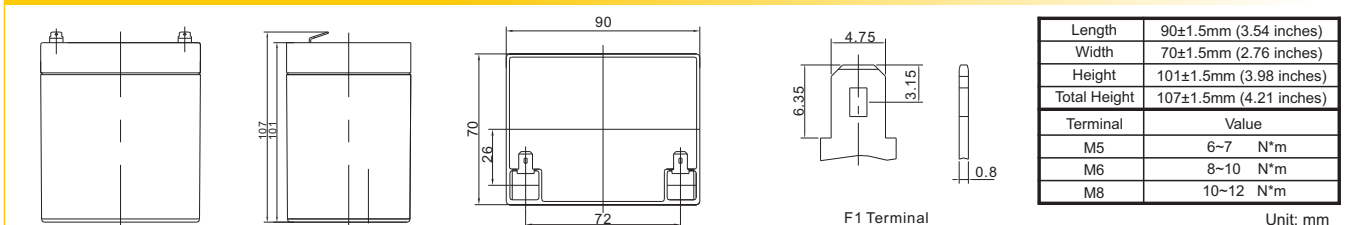
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	4.5Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 1.40 Kg (Tolerance $\pm 4.0\%$)
Internal Resistance	Approx. 38 m Ω
Terminal	F1/F2
Max. Discharge Current	45A (5 sec)
Short Circuit Current	234A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	1.35 A
Reference Capacity	C3 3.49AH C5 3.94AH C10 4.23AH C20 4.54AH
Standby Use Voltage	13.7 V~13.9 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 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 $\pm 5^\circ\text{C}$
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 and YDT 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, Telecom, power grid, medical equipment, emergency light and security system applications.



Dimensions



Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	17.84	11.64	8.584	4.968	2.870	1.694	1.231	0.980	0.828	0.553	0.450	0.234
1.65V	17.20	11.29	8.359	4.859	2.817	1.669	1.215	0.968	0.818	0.547	0.446	0.232
1.70V	16.36	10.83	8.063	4.714	2.747	1.636	1.193	0.952	0.805	0.540	0.440	0.230
1.75V	15.28	10.25	7.678	4.526	2.654	1.592	1.164	0.930	0.788	0.530	0.433	0.227
1.80V	13.92	9.494	7.183	4.281	2.533	1.535	1.126	0.902	0.766	0.517	0.423	0.222
1.85V	12.25	8.553	6.558	3.968	2.378	1.460	1.076	0.865	0.737	0.500	0.409	0.216

Constant Power Discharge Characteristics : WPC (25°C)

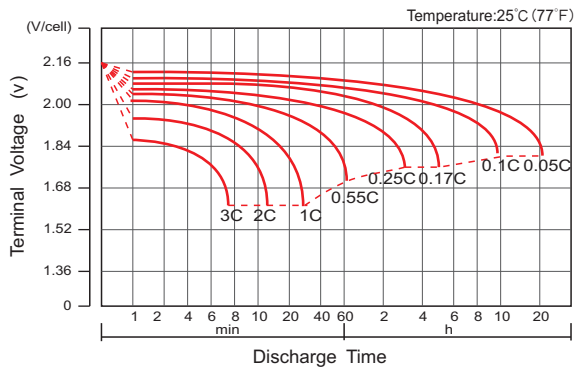
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	30.71	20.08	15.23	9.16	5.45	3.26	2.39	1.91	1.62	1.10	0.90	0.47
1.65V	30.39	19.99	15.14	9.09	5.40	3.23	2.37	1.90	1.61	1.09	0.89	0.47
1.70V	29.23	19.40	14.74	8.87	5.29	3.18	2.33	1.87	1.59	1.08	0.88	0.46
1.75V	27.79	18.68	14.24	8.60	5.13	3.11	2.29	1.83	1.56	1.06	0.87	0.45
1.80V	25.76	17.61	13.51	8.22	4.92	3.01	2.22	1.78	1.52	1.03	0.85	0.45
1.85V	23.08	16.15	12.51	7.70	4.65	2.88	2.13	1.72	1.47	1.00	0.82	0.44

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

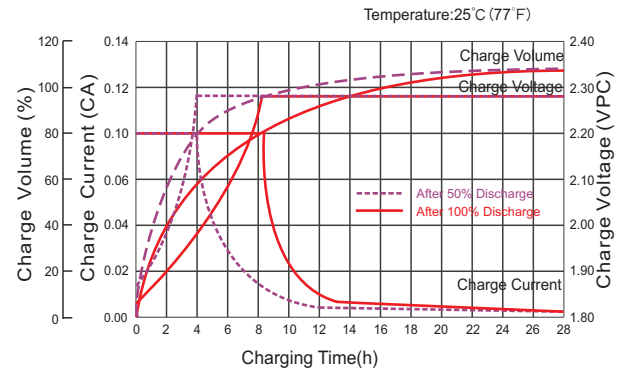
RT1245(12V4.5Ah)



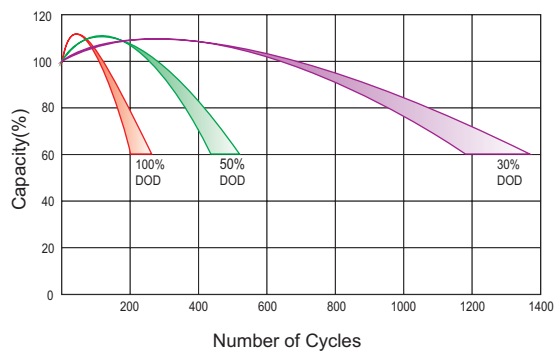
Discharge Characteristics Curve



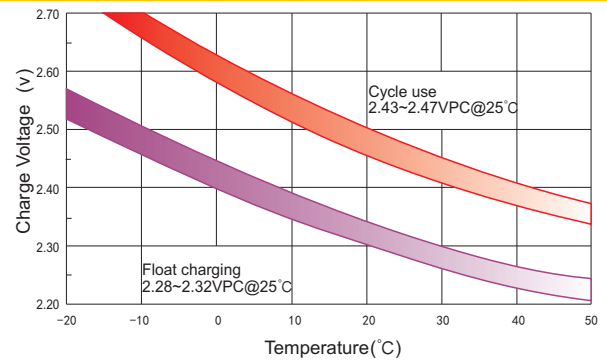
Charge Characteristic Curve For Standby Use



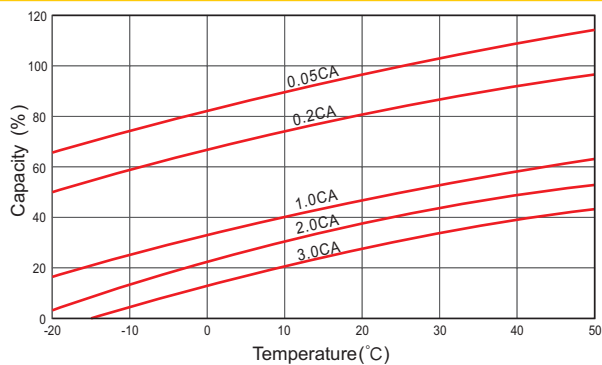
Cycle Life In Relation To Depth Of Discharge



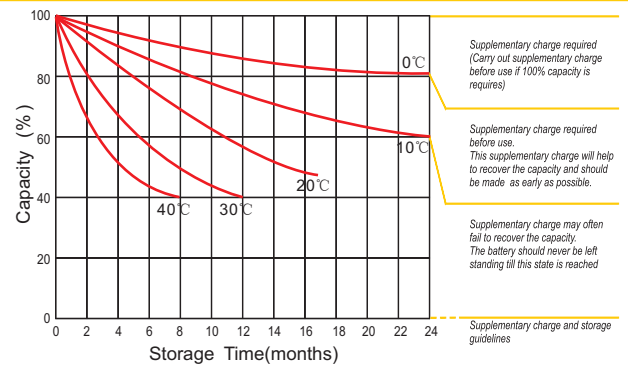
Relationship Between Charging Voltage And Temperature



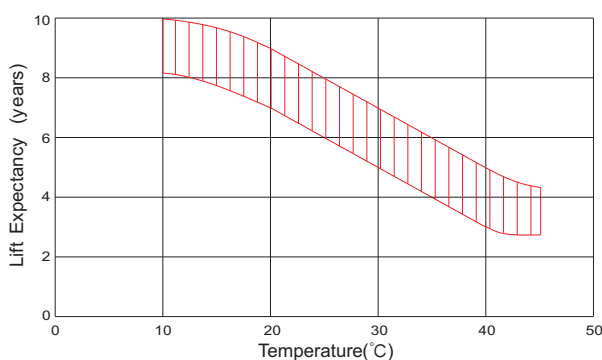
Temperature Effects On Capacity



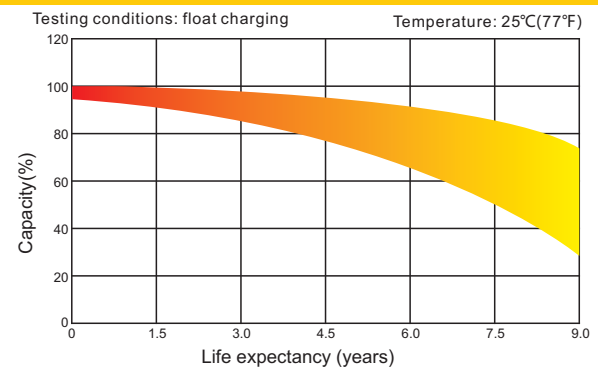
Storage Characteristics



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.

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RT1270 (12V7.0Ah)

RT series is a general purpose battery with 5 years design life in float service . It meets with IEC and JIS standards .With up-dated AGM valve regulated technology and high purity raw materials, the RT series battery has reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security systems applications.



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	7.0Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 2.04 Kg(Tolerance ±4%)
Max. Discharge Current	70A (5 sec)
Internal Resistance	Approx. 30 mΩ
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
Float charging Voltage	13.7 to 13.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current	2.1 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Faston Tab 187(F1)/Faston tab 250(F2)
Constainer Material	A.B.S. UL94-HB, UL94-V0 Optional.



MH28539



G4M20206-0910-E-16



CERTIFICATE

Postcode: 421001

is in conformity with

ISO 14001:2004 Standard



CERTIFICATE

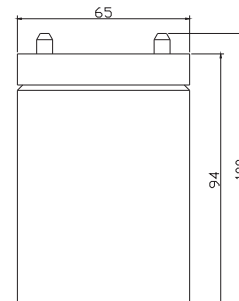
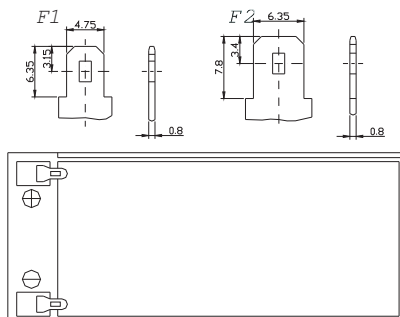
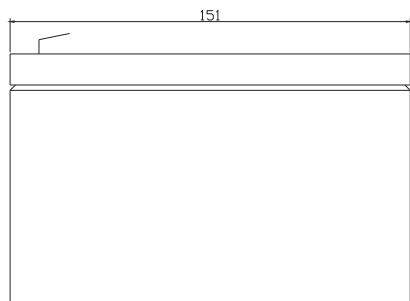
Postcode: 421001

is in conformity with

OHSAS 18001:1999 Standard

Dimensions

Unit: mm Dimension: 151(L) × 65(W) × 100(H)



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	27.61	18.10	13.79	7.320	4.549	2.573	1.833	1.493	1.227	0.808	0.700	0.375
10.0V	26.61	17.65	13.35	7.226	4.489	2.521	1.799	1.472	1.216	0.805	0.693	0.371
10.2V	25.05	16.78	12.98	7.116	4.446	2.495	1.783	1.457	1.208	0.798	0.682	0.361
10.5V	22.52	15.69	12.24	6.920	4.392	2.462	1.767	1.436	1.198	0.791	0.679	0.353
10.8V	20.17	14.63	11.55	6.691	4.331	2.442	1.747	1.387	1.192	0.787	0.667	0.339
11.1V	17.65	13.41	10.66	6.437	4.228	2.344	1.713	1.367	1.187	0.781	0.657	0.334

Constant Power Discharge Characteristics : W(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	299.4	198.5	152.2	83.79	54.39	30.32	21.92	17.87	14.70	9.678	8.383	4.494
10.0V	291.6	194.4	150.0	82.92	53.59	29.92	21.56	17.62	14.57	9.641	8.304	4.458
10.2V	277.4	186.7	148.0	82.21	53.19	29.66	21.37	17.46	14.48	9.568	8.197	4.343
10.5V	253.2	179.0	140.3	80.53	52.48	29.34	21.22	17.22	14.36	9.488	8.140	4.270
10.8V	228.4	167.4	132.6	78.62	51.79	29.13	20.97	16.64	14.30	9.446	8.016	4.099
11.1V	201.4	155.9	124.9	76.46	50.65	28.11	20.56	16.40	14.25	9.379	7.897	4.034

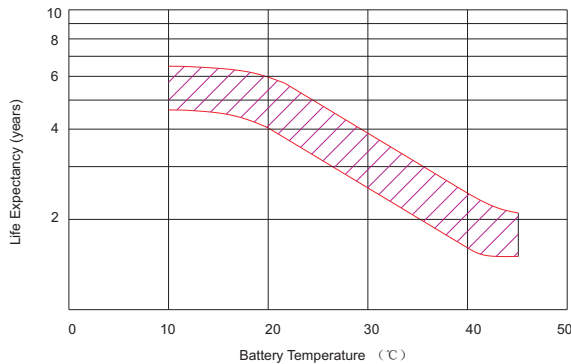
All mentioned values are average values (Tolerance ±2%).

RT1270

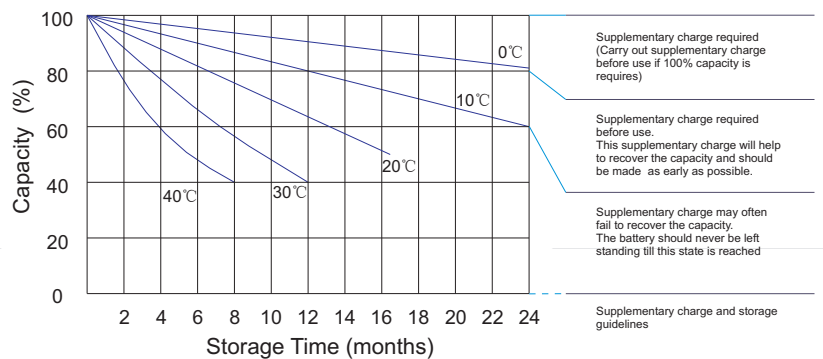
12V7.0Ah



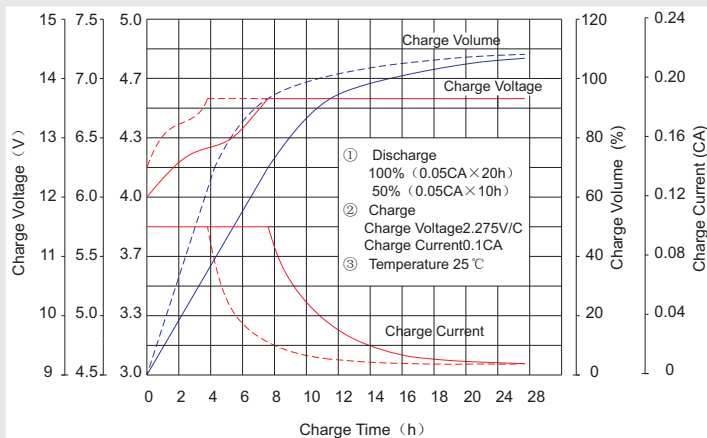
Effect of temperature on long term float life



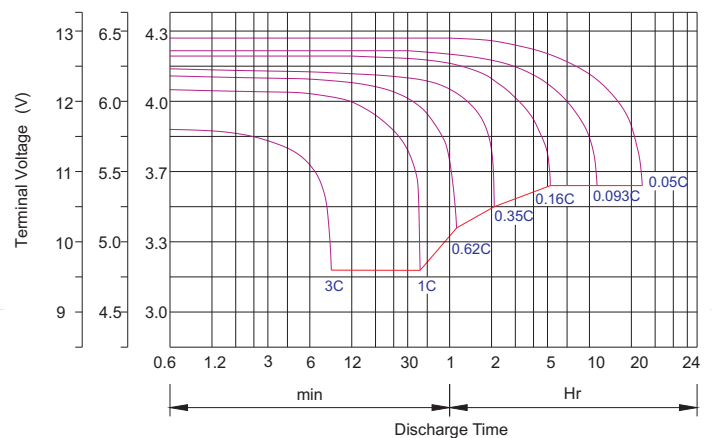
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V /cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h, Max. Current 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

Bolt	M5	M6	M8
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
Torque	6~7N·m	8~10N·m	10~12N·m

Maintenance & Cautions

Float Service:

- ※ Every month, recommend inspection every battery voltage.
- ※ Every three months, recommend equalization charge for one time.

Equalization charge method:

Discharge: 100% rate capacity discharge.

Charge: Max. current 0.3C, constant voltage 2.4-2.45V/Cell charge 24h.

- ※ Effect of temperature on float charge voltage: -3mV/°C/Cell.
- ※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.



RT1290 (12V9.0Ah)

RT series is a general purpose battery with 5 years design life in float service . It meets with IEC and JIS standards .With up-dated AGM valve regulated technology and high purity raw materials, the RT series battery has reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security systems applications.

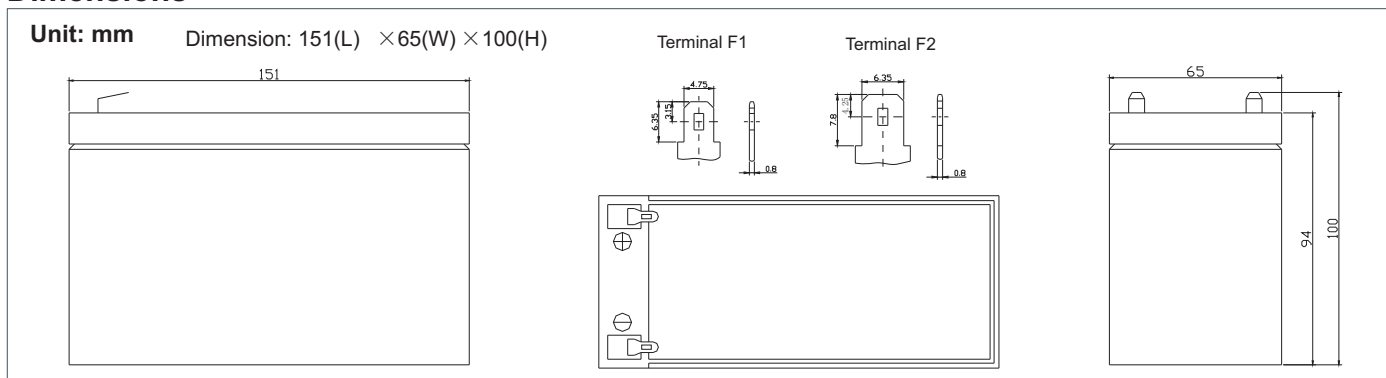


Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	9.0Ah@20hr-rate to 1.75V per cell @25 C °
Weight	Approx. 2.55Kg (Tolerance ±4%)
Max. Discharge Current	90 A (5 sec)
Internal Resistance	Approx. 18 mΩ
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
Float charging Voltage	13.7 to 13.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current	2.7 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Faston Tab 187(F1)/Faston tab 250(F2)
Constainer Material	A.B.S. UL94-HB, UL94-V0 Optional.



Dimensions



Constant Current Discharge Characteristics : A(25°C)

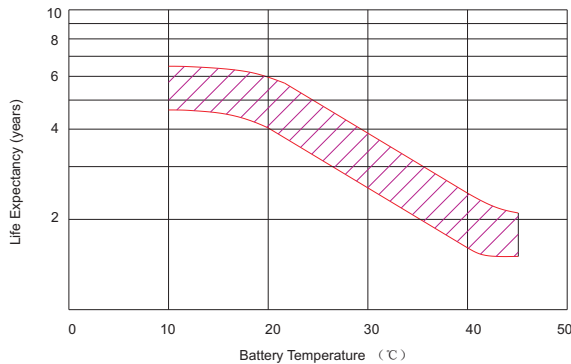
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	35.50	23.27	17.33	9.23	5.849	3.362	2.357	1.920	1.578	1.039	0.900	0.482
10.0V	34.22	22.69	16.78	9.11	5.772	3.294	2.313	1.892	1.564	1.035	0.890	0.478
10.2V	32.20	21.57	16.31	8.97	5.717	3.259	2.293	1.874	1.553	1.026	0.877	0.464
10.5V	28.95	20.17	15.39	8.722	5.646	3.217	2.272	1.846	1.540	1.017	0.872	0.454
10.8V	25.94	18.81	14.52	8.434	5.568	3.190	2.246	1.783	1.533	1.012	0.858	0.436
11.1V	22.69	17.24	13.39	8.114	5.436	3.127	2.202	1.757	1.526	1.004	0.845	0.429

Constant Power Discharge Characteristics : W(25°C)

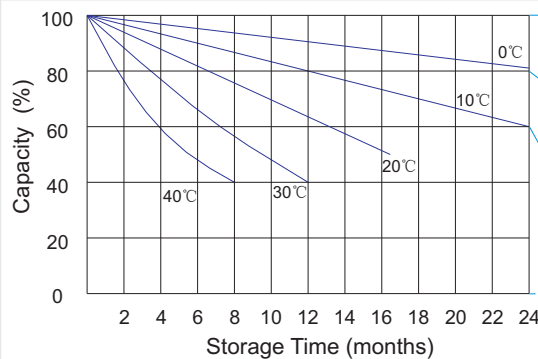
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	385.0	255.2	191.3	105.6	69.92	39.62	28.18	22.98	18.90	12.44	10.78	5.779
10.0V	375.0	249.9	188.5	104.5	68.90	39.10	27.72	22.65	18.73	12.40	10.68	5.732
10.2V	356.7	240.0	186.0	103.6	68.39	38.75	27.48	22.44	18.62	12.30	10.54	5.584
10.5V	325.5	230.1	176.3	101.5	67.47	38.34	27.28	22.14	18.47	12.20	10.47	5.490
10.8V	293.7	215.3	166.6	99.1	66.59	38.06	26.96	21.39	18.38	12.14	10.31	5.270
11.1V	259.0	200.4	156.9	96.4	65.13	37.51	26.43	21.09	18.32	12.06	10.15	5.187

All mentioned values are average values (Tolerance ±2%).

Effect of temperature on long term float life



Storage characteristic



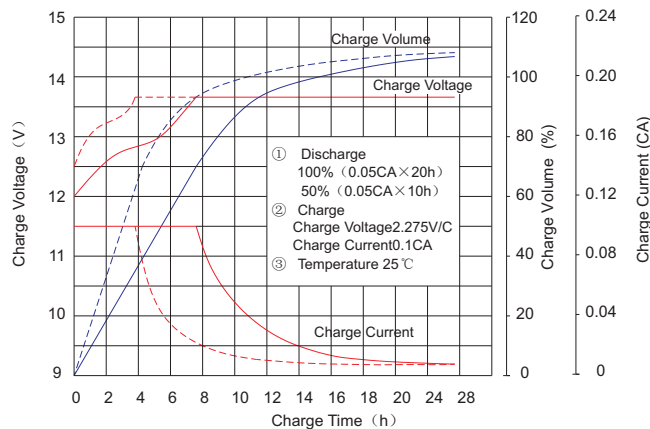
Supplementary charge required
(Carry out supplementary charge
before use if 100% capacity is
required)

Supplementary charge required
before use.
This supplementary charge will help
to recover the capacity and should
be made as early as possible.

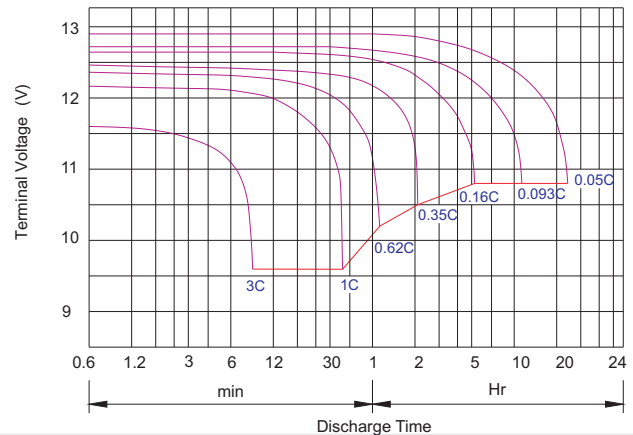
Supplementary charge may often
fail to recover the capacity.
The battery should never be left
standing till this state is reached

Supplementary charge and storage
guidelines

Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V /cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charge the batteries at least once every six months, if they are stored at 25°C .

Charging Method:

Constant Voltage	-0.2Cx2h+14.4-14.7Vx24h, Max. Current 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

Bolt	M5	M6	M8
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
Torque	6~7N-m	8~10N-m	10~12N-m

Maintenance & Cautions

Float Service:

※ Every month, recommend inspection every battery voltage.

※ Every three months, recommend equalization charge for one time.

Equalization charge method:

Discharge: 100% rate capacity discharge.

Charge: Max. current 0.3CA, constant voltage 14.4-14.7V charge 24h.

※ Effect of temperature on float charge voltage: -3mV/°C/Cell.

※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.



RT12120 (12V12Ah)

RT series is a general purpose battery with 5 years design life in float service . It meets with IEC and JIS standards .With up-dated AGM valve regulated technology and high purity raw materials, the RT series battery has reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security systems applications.



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	12Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 3.6 Kg(Tolerance $\pm$ 4%)
Max. Discharge Current	120 A (5 sec)
Internal Resistance	Approx. 16.5 m Ω
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C $\pm$ 5°C
Float charging Voltage	13.7 to 13.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current	3.6 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Faston Tab 187(F1)/Faston tab 250(F2)
Constainer Material	A.B.S. UL94-HB, UL94-V0 Optional.



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G4M20206-0910-E-16



CERTIFICATE

Postcode: 421001

is in conformity with

ISO 14001:2004 Standard



CERTIFICATE

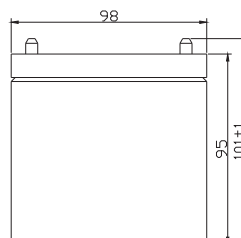
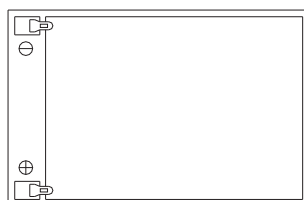
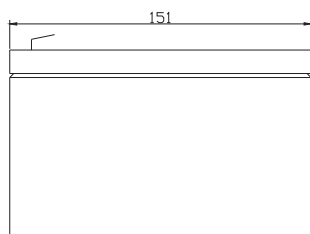
Postcode: 421001

is in conformity with

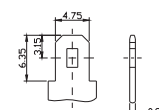
OHSAS 18001:1999 Standard

Dimensions

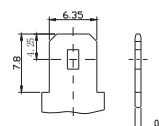
Unit: mm Dimension: 151(L) $\times$ 98(W) $\times$ 95(H)



Terminal F1



Terminal F2



Constant Current Discharge Characteristics : A(25°C)

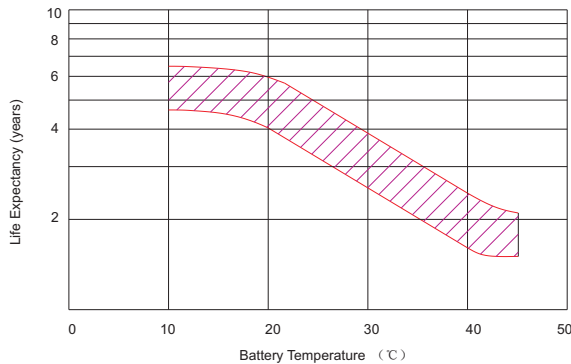
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	47.33	31.03	23.11	12.30	7.799	4.483	3.143	2.560	2.104	1.386	1.200	0.642
10.0V	45.62	30.26	22.37	12.15	7.695	4.392	3.084	2.523	2.085	1.380	1.187	0.637
10.2V	42.94	28.76	21.75	11.96	7.622	4.346	3.057	2.498	2.071	1.368	1.169	0.619
10.5V	38.60	26.89	20.51	11.63	7.529	4.289	3.030	2.461	2.054	1.355	1.163	0.606
10.8V	34.58	25.08	19.36	11.25	7.424	4.254	2.995	2.377	2.044	1.350	1.144	0.582
11.1V	30.26	22.99	17.86	10.82	7.248	4.170	2.936	2.343	2.035	1.339	1.126	0.572

Constant Power Discharge Characteristics : W(25°C)

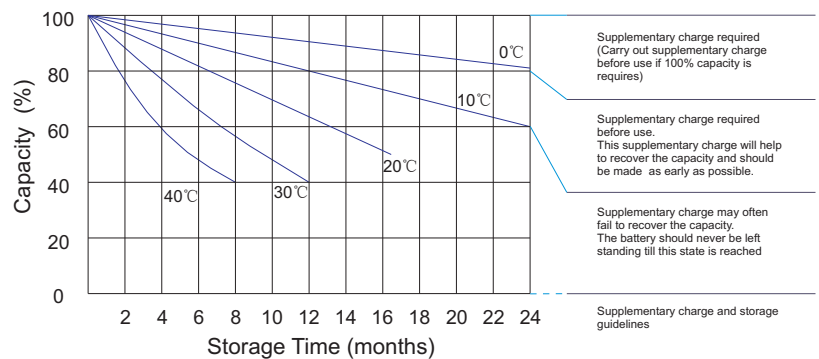
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	513.3	340.3	255.0	140.8	93.23	52.83	37.57	30.64	25.20	16.59	14.37	7.705
10.0V	500.0	333.2	251.4	139.4	91.87	52.13	36.96	30.21	24.97	16.53	14.24	7.642
10.2V	475.5	320.0	248.1	138.2	91.19	51.67	36.64	29.92	24.82	16.40	14.05	7.446
10.5V	434.0	306.8	235.1	135.3	89.96	51.12	36.37	29.52	24.62	16.26	13.95	7.320
10.8V	391.6	287.0	222.2	132.1	88.79	50.75	35.95	28.52	24.51	16.19	13.74	7.026
11.1V	345.3	267.2	209.2	128.5	86.84	50.02	35.25	28.11	24.42	16.08	13.54	6.915

All mentioned values are average values (Tolerance $\pm$ 2%).

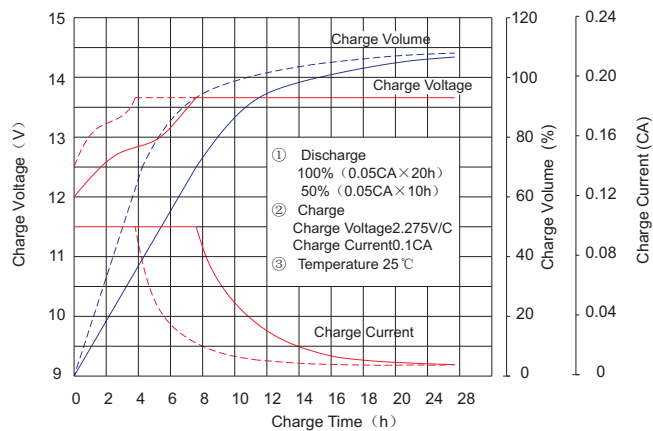
Effect of temperature on long term float life



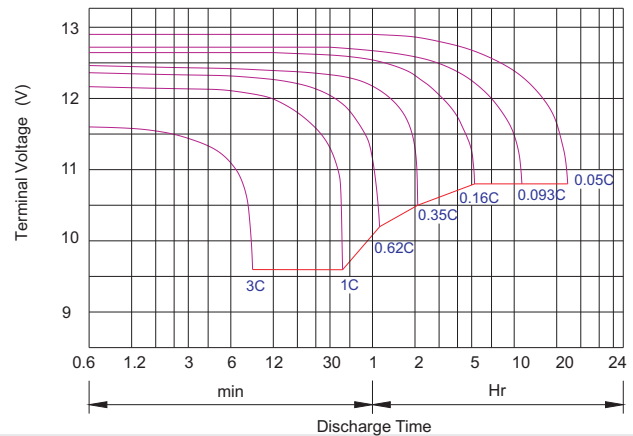
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V /cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charge the batteries at least once every six months, if they are stored at 25°C .

Charging Method:

Constant Voltage	-0.2Cx2h+14.4-14.7Vx24h, Max. Current 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

Bolt	M5	M6	M8
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
Torque	6~7N·m	8~10N·m	10~12N·m

Maintenance & Cautions

Float Service:

※ Every month, recommend inspection every battery voltage.

※ Every three months, recommend equalization charge for one time.

Equalization charge method:

Discharge: 100% rate capacity discharge.

Charge: Max. current 0.3CA, constant voltage 14.4-14.7V charge 24h.

※ Effect of temperature on float charge voltage: -3mV/°C/Cell.

※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.



RT12180 (12V18Ah)

RT series is a general purpose battery with 5 years design life in float service . It meets with IEC and JIS standards .With up-dated AGM valve regulated technology and high purity raw materials, the RT series battery has reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security systems applications.



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	18Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 5.2 Kg(Tolerance $\pm 4\%$)
Max. Discharge Current	180 A (5 sec)
Internal Resistance	Approx. 14 m Ω
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C $\pm$ 5°C
Float charging Voltage	13.7 to 13.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	5.4 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Faston F3/F13
Constainer Material	A.B.S. UL94-HB, UL94-V0 Optional.



MH28539



G4M20206-0910-E-16



CERTIFICATE

Postcode: 421001

is in conformity with

ISO 14001:2004 Standard



CERTIFICATE

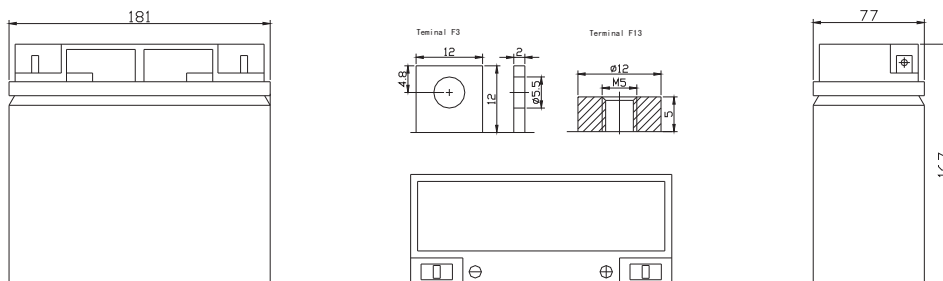
Postcode: 421001

is in conformity with

OHSAS 18001:1999 Standard

Dimensions

Unit: mm Dimension: 181(L) $\times$ 77(W) $\times$ 167(H)



Constant Current Discharge Characteristics : A(25°C)

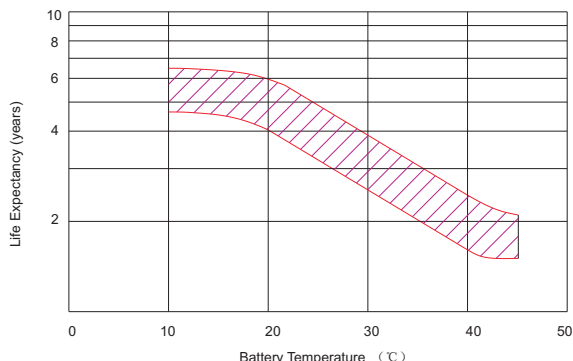
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	71.00	46.55	34.67	18.45	11.70	7.153	4.714	3.839	3.155	2.078	1.799	0.963
10.0V	68.43	45.38	33.56	18.22	11.54	7.009	4.627	3.785	3.127	2.070	1.781	0.955
10.2V	64.41	43.14	32.62	17.94	11.43	6.935	4.586	3.747	3.107	2.051	1.754	0.928
10.5V	57.90	40.34	30.77	17.44	11.29	6.844	4.545	3.692	3.081	2.033	1.745	0.909
10.8V	51.88	37.62	29.03	16.87	11.14	6.788	4.492	3.565	3.066	2.025	1.716	0.873
11.1V	45.39	34.49	26.78	16.23	10.87	6.515	4.404	3.514	3.052	2.009	1.689	0.858

Constant Power Discharge Characteristics : W(25°C)

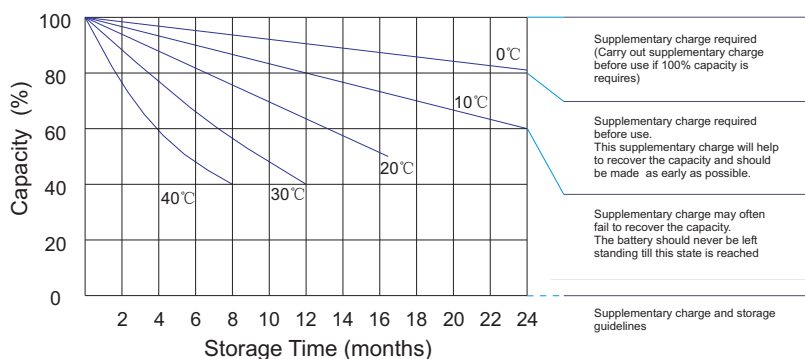
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	770.0	510.4	382.5	211.2	139.8	84.30	56.36	45.96	37.80	24.89	21.56	11.56
10.0V	749.9	499.8	377.0	209.0	137.8	83.18	55.44	45.31	37.46	24.79	21.35	11.46
10.2V	713.3	480.0	372.1	207.2	136.8	82.46	54.96	44.89	37.23	24.60	21.08	11.17
10.5V	651.0	460.2	352.7	203.0	134.9	81.57	54.56	44.28	36.94	24.40	20.93	10.98
10.8V	587.4	430.5	333.2	198.2	133.2	80.99	53.92	42.79	36.77	24.29	20.61	10.54
11.1V	518.0	400.8	313.8	192.8	130.3	78.16	52.87	42.17	36.63	24.12	20.31	10.37

All mentioned values are average values (Tolerance $\pm 2\%$).

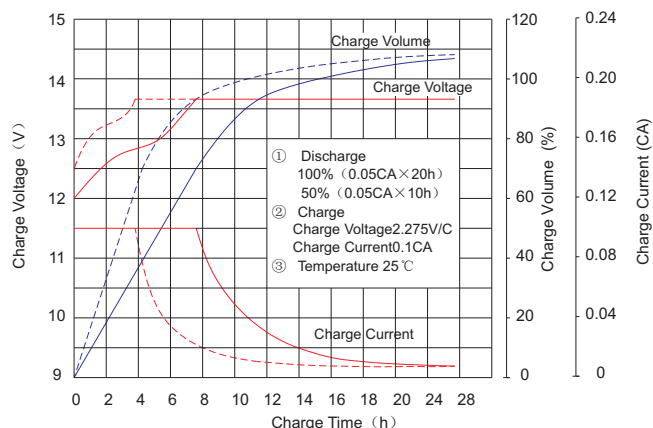
Effect of temperature on long term float life



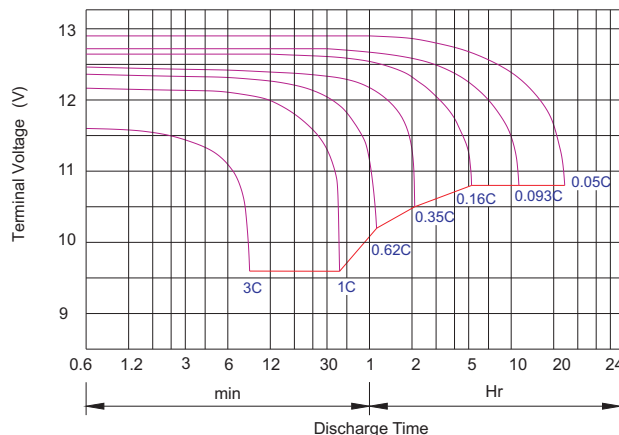
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V /cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charge the batteries at least once every six months, if they are stored at 25°C .

Charging Method:

Constant Voltage	-0.2Cx2h+14.4-14.7Vx24h, Max. Current 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

Bolt	M5	M6	M8
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
Torque	6~7N-m	8~10N-m	10~12N-m

Maintenance & Cautions

Float Service:
※ Every month, recommend inspection every battery voltage.
※ Every three months, recommend equalization charge for one time.
Equalization charge method:
Discharge: 100% rate capacity discharge.
Charge: Max. current 0.3CA, constant voltage 14.4-14.7V charge 24h.
※ Effect of temperature on float charge voltage: -3mV/°C/Cell.
※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.



RT12260(12V26Ah)

Specification

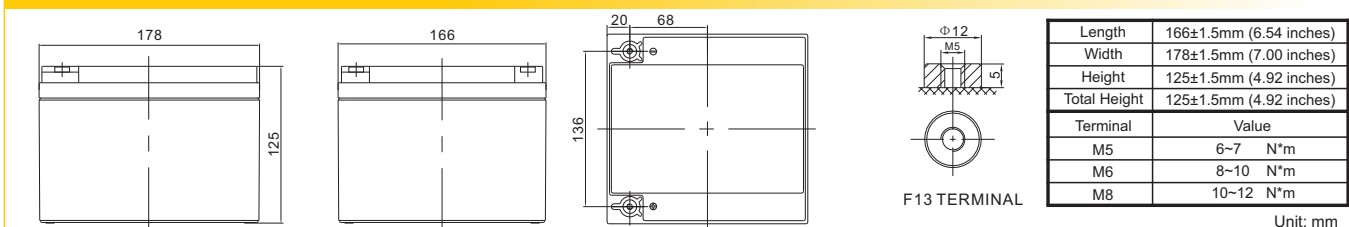
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	26Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 8.1 Kg (Tolerance $\pm 3.0\%$)
Internal Resistance	Approx. 10 m Ω
Terminal	F3(M5)/F13(M5)/T24(M5)
Max. Discharge Current	260A (5 sec)
Short Circuit Current	900A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	7.8 A
Reference Capacity	C3 20.2AH C5 22.8AH C10 24.4AH C20 26.2AH
Standby Use Voltage	13.7 V~13.9 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 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 $\pm 5^\circ\text{C}$
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 and YDT 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, Telecom, power grid, medical equipment, emergency light and security system applications.



Dimensions



Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	97.93	63.87	47.12	27.27	15.76	9.785	7.113	5.664	4.782	3.195	2.602	1.354
1.65V	94.39	61.96	45.88	26.67	15.46	9.642	7.019	5.594	4.726	3.163	2.578	1.343
1.70V	89.79	59.47	44.26	25.88	15.08	9.451	6.893	5.500	4.653	3.120	2.545	1.328
1.75V	83.88	56.24	42.15	24.84	14.57	9.199	6.726	5.376	4.555	3.063	2.501	1.309
1.80V	76.42	52.11	39.43	23.50	13.90	8.868	6.506	5.212	4.426	2.987	2.443	1.284
1.85V	67.25	46.95	36.00	21.78	13.05	8.437	6.218	4.997	4.256	2.887	2.366	1.250

Constant Power Discharge Characteristics : WPC (25°C)

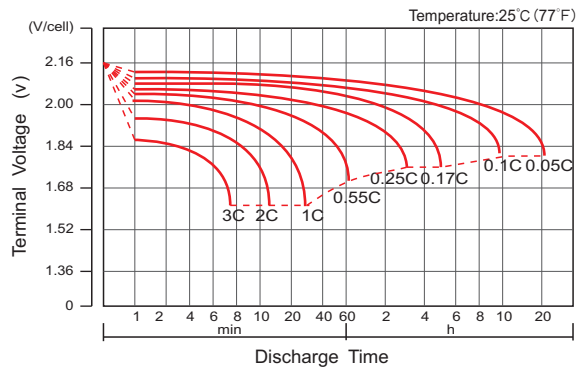
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	168.6	110.2	83.6	50.27	29.90	18.82	13.79	11.04	9.36	6.33	5.19	2.71
1.65V	166.8	109.7	83.1	49.90	29.66	18.68	13.69	10.96	9.29	6.29	5.15	2.69
1.70V	160.4	106.5	80.9	48.69	29.02	18.37	13.48	10.80	9.17	6.21	5.09	2.66
1.75V	152.6	102.5	78.1	47.22	28.18	17.96	13.21	10.60	9.01	6.11	5.01	2.63
1.80V	141.4	96.66	74.1	45.12	27.02	17.40	12.83	10.31	8.78	5.97	4.90	2.58
1.85V	126.7	88.63	68.6	42.24	25.54	16.65	12.31	9.92	8.47	5.79	4.75	2.51

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

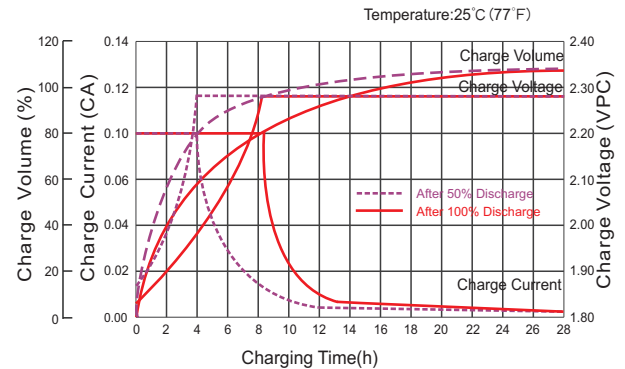
RT12260(12V26Ah)



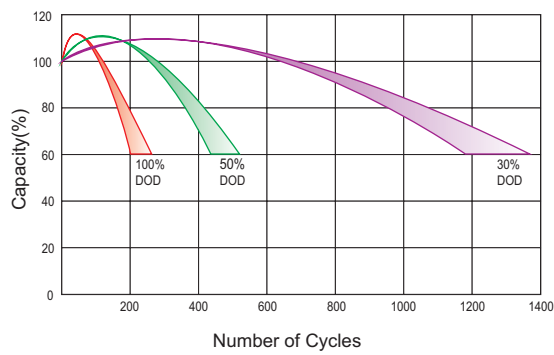
Discharge Characteristics Curve



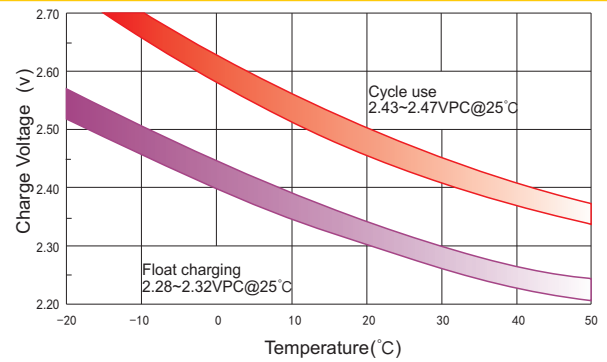
Charge Characteristic Curve For Standby Use



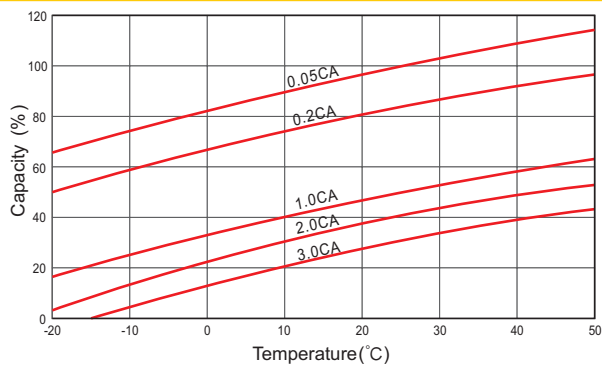
Cycle Life In Relation To Depth Of Discharge



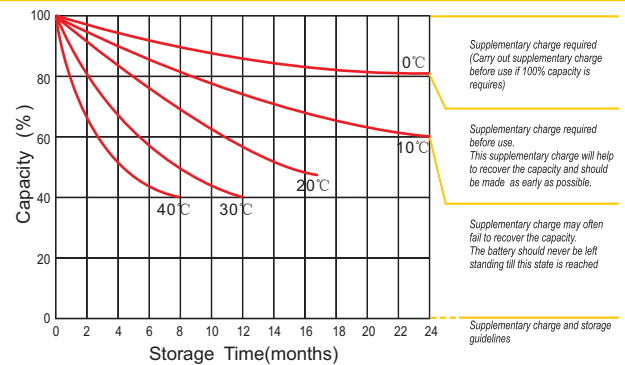
Relationship Between Charging Voltage And Temperature



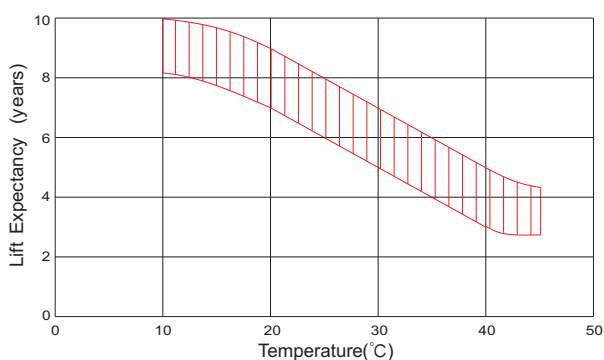
Temperature Effects On Capacity



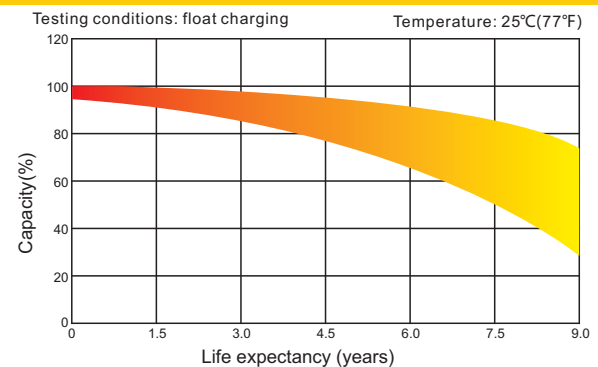
Storage Characteristics



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.

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