



National Fire Equipment Ltd.

**Model BAT6V4.5A - 6 Volt - 4.5 AMP
General Purpose Battery**

Specification

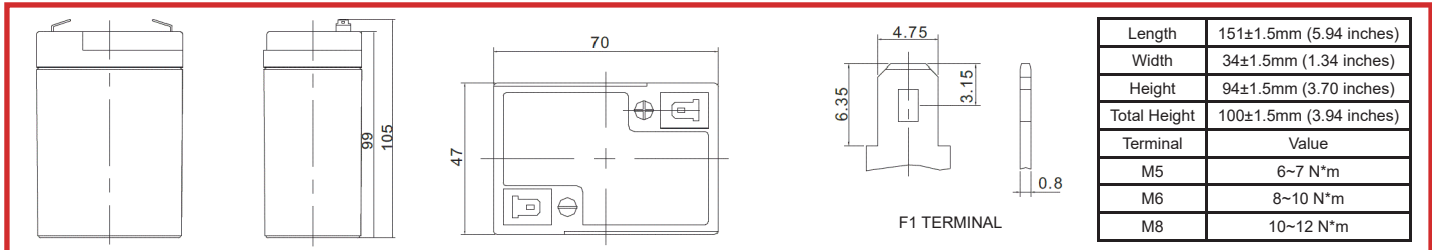
Cells Per Unit	3
Voltage Per Unit	6
Nominal Capacity	4.5Ah@20hour-rate to 1.75V per cell @25°C
Weight Approx.	Approx. 0.71 Kg (Tolerance±5.0%)
Internal Resistance	Approx. 9.0 mΩ
Terminal	F1
Max. Discharge Current	45A (5 sec)
Short Circuit Current	225A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	1.35 A
Reference Capacity	C3 3.49AH C5 3.94AH C10 4.23AH C20 4.54AH
Standby Use Voltage	6.85 V~6.95 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	RT 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

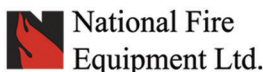


Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	17.31	11.40	8.498	4.918	2.870	1.694	1.231	0.980	0.828	0.553	0.450	0.234
1.65V	16.68	11.06	8.276	4.810	2.817	1.669	1.215	0.968	0.818	0.547	0.446	0.232
1.70V	15.87	10.62	7.983	4.667	2.747	1.636	1.193	0.952	0.805	0.540	0.440	0.230
1.75V	14.82	10.04	7.602	4.480	2.654	1.592	1.164	0.930	0.788	0.530	0.433	0.227
1.80V	13.51	9.304	7.111	4.238	2.533	1.535	1.126	0.902	0.766	0.517	0.423	0.222
1.85V	11.88	8.382	6.492	3.929	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	29.79	19.67	15.08	9.07	5.45	3.26	2.39	1.91	1.62	1.10	0.90	0.47
1.65V	29.47	19.59	14.99	9.00	5.40	3.23	2.37	1.90	1.61	1.09	0.89	0.47
1.70V	28.35	19.01	14.59	8.78	5.29	3.18	2.33	1.87	1.59	1.08	0.88	0.46
1.75V	26.96	18.31	14.09	8.52	5.13	3.11	2.29	1.83	1.56	1.06	0.87	0.45
1.80V	24.99	17.26	13.37	8.14	4.92	3.01	2.22	1.78	1.52	1.03	0.85	0.45
1.85V	22.38	15.82	12.38	7.62	4.65	2.88	2.13	1.72	1.47	1.00	0.82	0.44



TORONTO: (905) 761-6355
Toll Free: (800) 267-8508
OTTAWA: (613) 723-6071

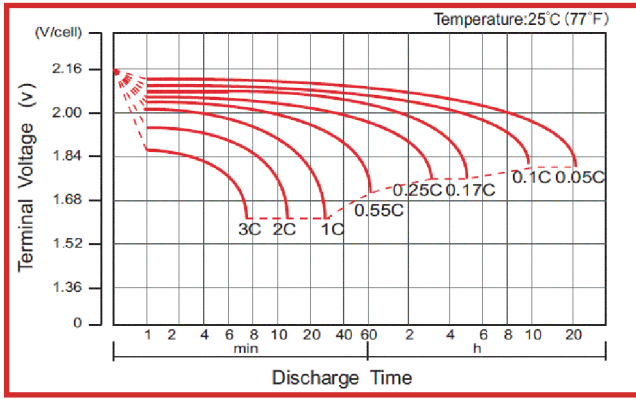
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BURNABY: (604)-299-4498

EDMONTON: (780) 455-3870
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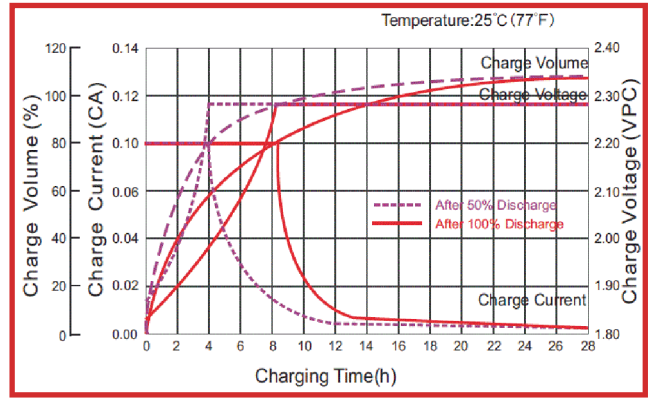
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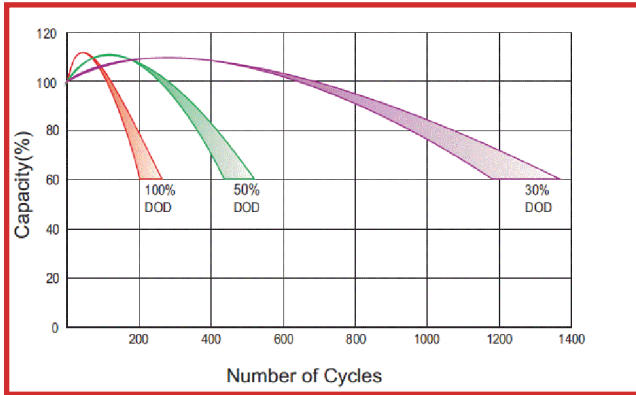
Discharge Characteristics Curve Charge



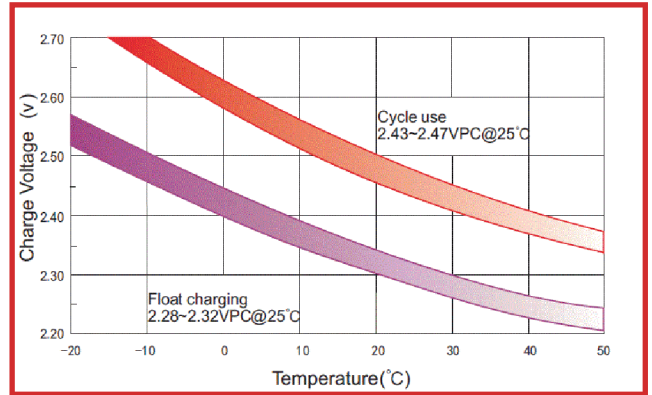
Charge Characteristic Curve For Standby Use



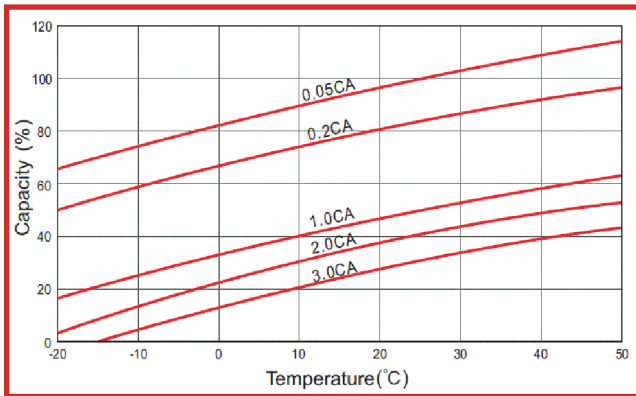
Cycle Life In Relation To Depth Of Discharge



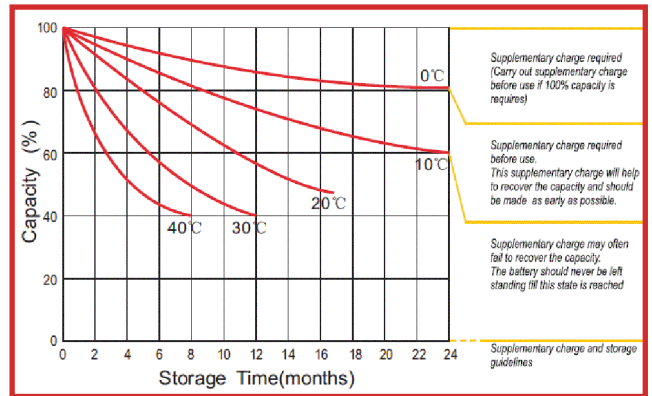
Relationship Between Charging Voltage And Temperature



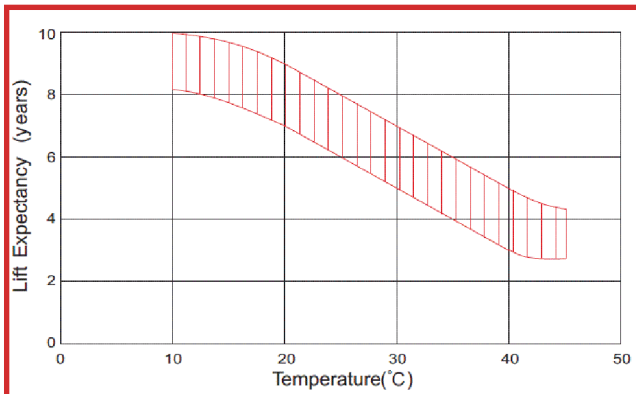
Temperature Effects On Capacity



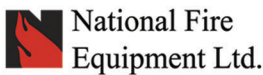
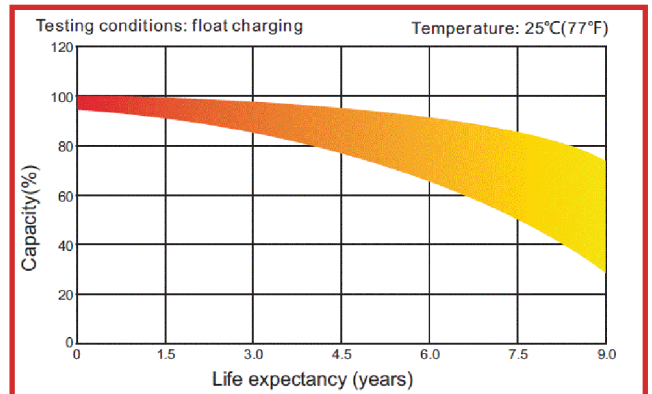
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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