



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

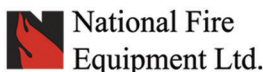
Length	151±1.5mm (5.94 inches)
Width	34±1.5mm (1.34 inches)
Height	94±1.5mm (3.70 inches)
Total Height	100±1.5mm (3.94 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

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



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OTTAWA: (613) 723-6071

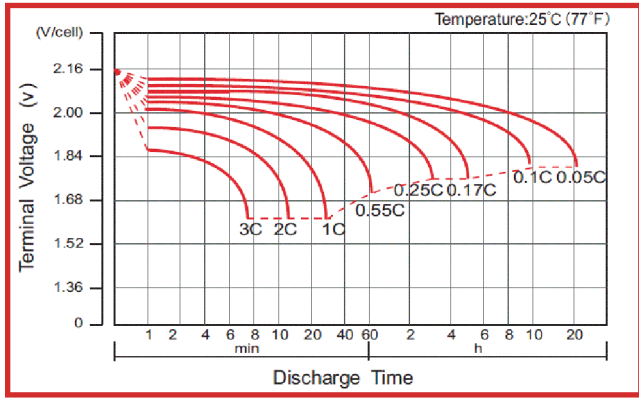
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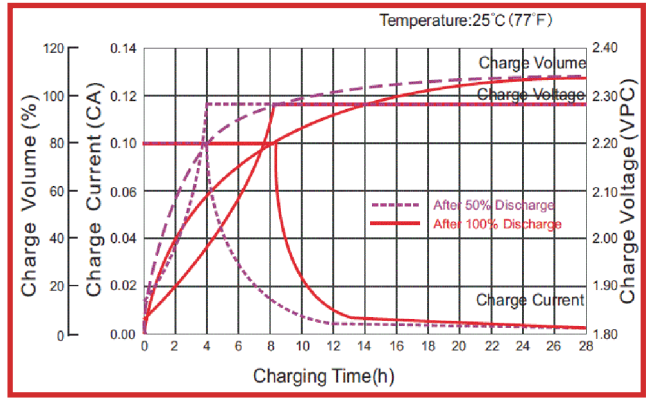
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MISSISSAUGA: (905) 565-1385

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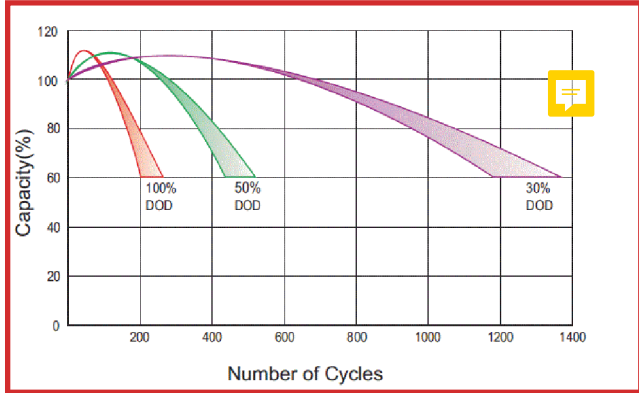
Discharge Characteristics Curve Charge



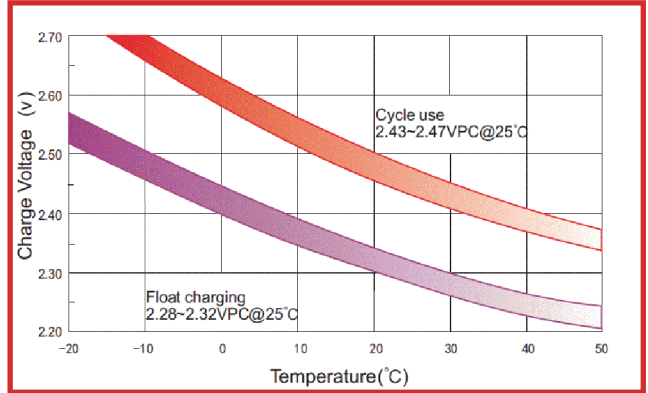
Charge Characteristic Curve For Standby Use



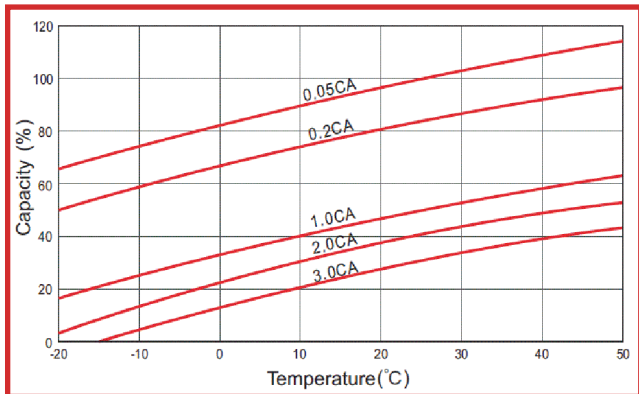
Cycle Life In Relation To Depth Of Discharge



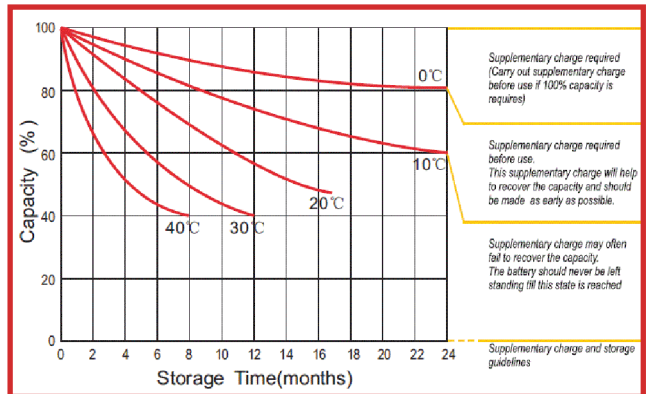
Relationship Between Charging Voltage And Temperature



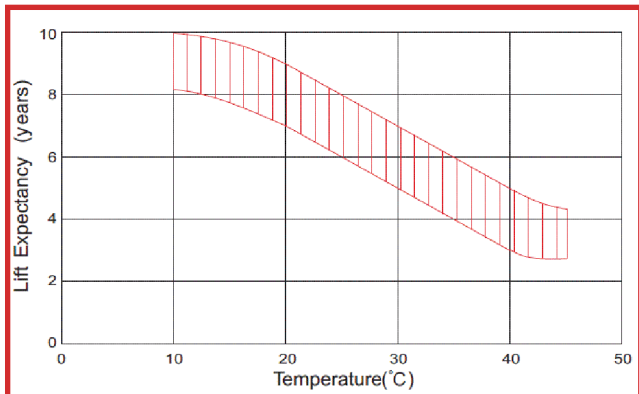
Temperature Effects On Capacity



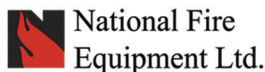
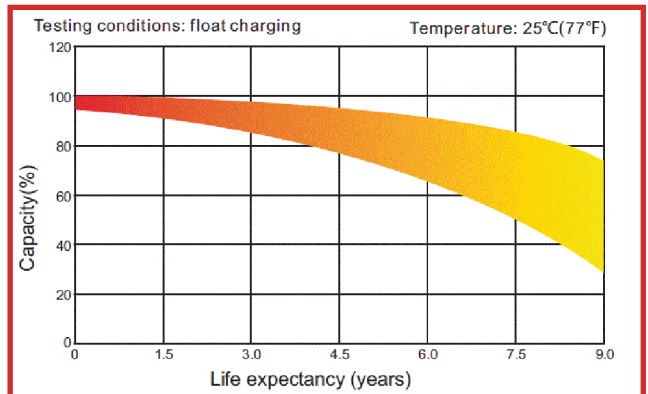
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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MISSISSAUGA: (905) 565-1385

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National Fire Equipment Ltd.

**Model BAT6V7A - 6 Volt - 7 AMP
General Purpose Battery**

Specification

Cells Per Unit	3
Voltage Per Unit	6
Nominal Capacity	7Ah@20hour-rate to 1.75V per cell @25°C
Weight Approx.	Approx. 1.0 Kg (Tolerance±5.0%)
Internal Resistance	Approx. 12 mΩ
Terminal	F1/F2
Max. Discharge Current	70A (5 sec)
Short Circuit Current	340A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	2.1A
Reference Capacity	C3 5.43AH C5 6.13AH C10 6.58AH C20 7.04AH
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.



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Dimensions

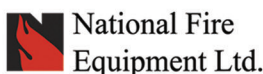
Length	151±1.5mm (5.94 inches)
Width	34±1.5mm (1.34 inches)
Height	94±1.5mm (3.70 inches)
Total Height	100±1.5mm (3.94 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	26.92	17.74	13.22	7.650	4.465	2.634	1.915	1.525	1.287	0.860	0.701	0.364
1.65V	25.95	17.21	12.87	7.482	4.382	2.596	1.890	1.506	1.273	0.852	0.694	0.362
1.70V	24.68	16.52	12.42	7.260	4.273	2.545	1.856	1.481	1.253	0.840	0.685	0.358
1.75V	23.06	15.62	11.82	6.969	4.129	2.477	1.811	1.447	1.226	0.825	0.673	0.352
1.80V	21.01	14.47	11.06	6.593	3.941	2.388	1.752	1.403	1.192	0.804	0.658	0.346
1.85V	18.49	13.04	10.10	6.111	3.698	2.272	1.674	1.345	1.146	0.777	0.637	0.336

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	46.34	30.60	23.46	14.10	8.47	5.07	3.71	2.97	2.52	1.71	1.40	0.73
1.65V	45.85	30.48	23.32	14.00	8.40	5.03	3.69	2.95	2.50	1.69	1.39	0.72
1.70V	44.10	29.58	22.69	13.66	8.22	4.95	3.63	2.91	2.47	1.67	1.37	0.72
1.75V	41.94	28.47	21.93	13.25	7.99	4.84	3.56	2.85	2.43	1.64	1.35	0.71
1.80V	38.88	26.58	20.80	12.66	7.66	4.69	3.45	2.78	2.36	1.61	1.32	0.69
1.85V	34.82	24.62	19.26	11.85	7.24	4.48	3.32	2.67	2.28	1.56	1.28	0.68



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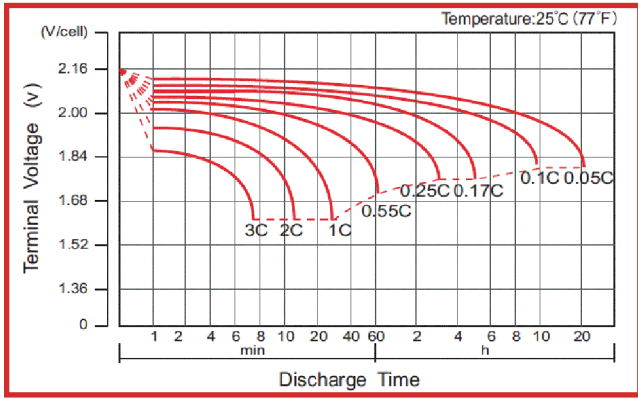
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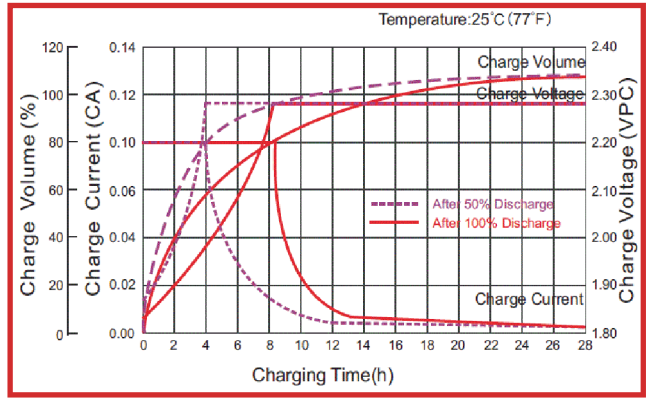
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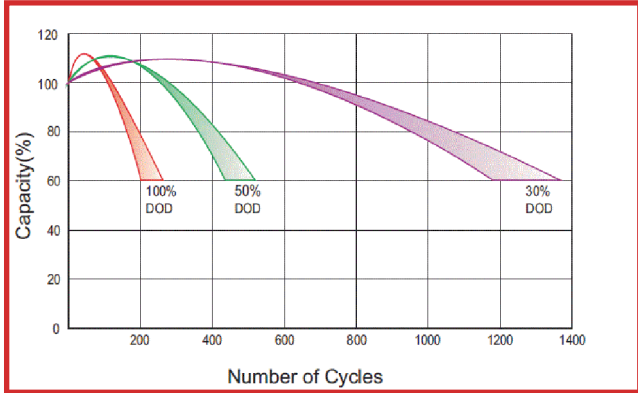
Discharge Characteristics Curve Charge



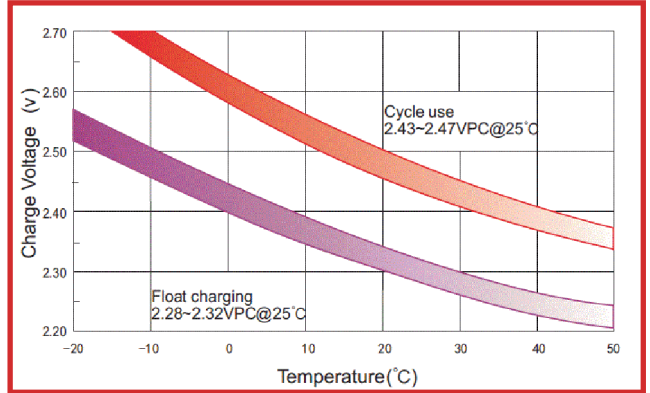
Charge Characteristic Curve For Standby Use



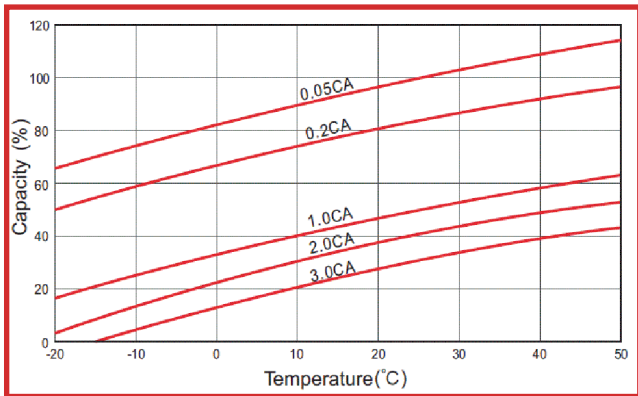
Cycle Life In Relation To Depth Of Discharge



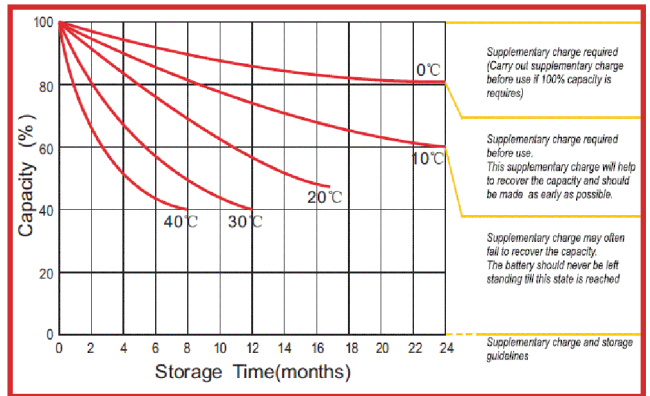
Relationship Between Charging Voltage And Temperature



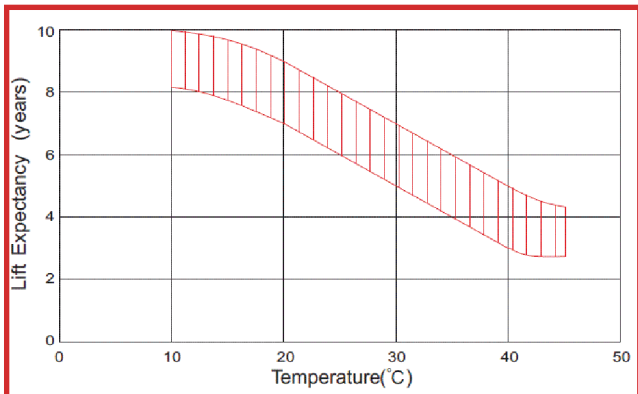
Temperature Effects On Capacity



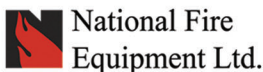
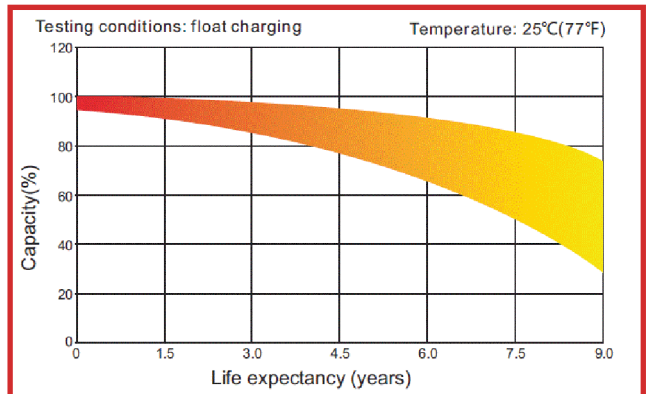
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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National Fire Equipment Ltd.

Model BAT6V12A - 6 Volt - 12 AMP General Purpose Battery

Specification

Cells Per Unit	3
Voltage Per Unit	6
Nominal Capacity	12Ah@20hour-rate to 1.75V per cell @25°C
Weight Approx.	Approx.1.66 Kg (Tolerance±4.0%)
Internal Resistance	Approx. 10.0 mΩ
Terminal	F1/F2
Max. Discharge Current	120A (5 sec)
Short Circuit Current	580A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	3.6A
Reference Capacity	C3 9.32AH C5 10.5AH C10 11.3AH C20 12.0AH
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

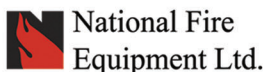
Length	150±1.5mm (5.91 inches)
Width	50±1.5mm (1.96 inches)
Height	93±1.5mm (3.66 inches)
Total Height	99±1.5mm (3.90 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	46.15	30.41	22.66	13.11	7.654	4.516	3.283	2.614	2.207	1.475	1.201	0.625
1.65V	44.48	29.50	22.07	12.83	7.513	4.450	3.239	2.582	2.181	1.460	1.190	0.620
1.70V	42.31	28.31	21.29	12.45	7.325	4.362	3.181	2.539	2.147	1.440	1.174	0.613
1.75V	39.53	26.77	20.27	11.95	7.078	4.246	3.104	2.481	2.102	1.414	1.154	0.604
1.80V	36.01	24.81	18.96	11.30	6.755	4.093	3.003	2.405	2.043	1.379	1.127	0.592
1.85V	31.69	22.35	17.31	10.48	6.340	3.894	2.870	2.306	1.964	1.332	1.092	0.577

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	79.43	52.46	40.21	24.18	14.53	8.69	6.36	5.09	4.32	2.92	2.40	1.25
1.65V	78.60	52.25	39.98	24.00	14.41	8.62	6.32	5.06	4.29	2.90	2.38	1.24
1.70V	75.60	50.71	38.91	23.42	14.10	8.48	6.22	4.98	4.23	2.87	2.35	1.23
1.75V	71.89	48.81	37.59	22.71	13.69	8.29	6.10	4.89	4.16	2.82	2.31	1.21
1.80V	66.65	46.02	35.66	21.70	13.13	8.03	5.92	4.76	4.05	2.76	2.26	1.19
1.85V	59.69	42.20	33.02	20.32	12.41	7.68	5.68	4.58	3.91	2.67	2.19	1.16



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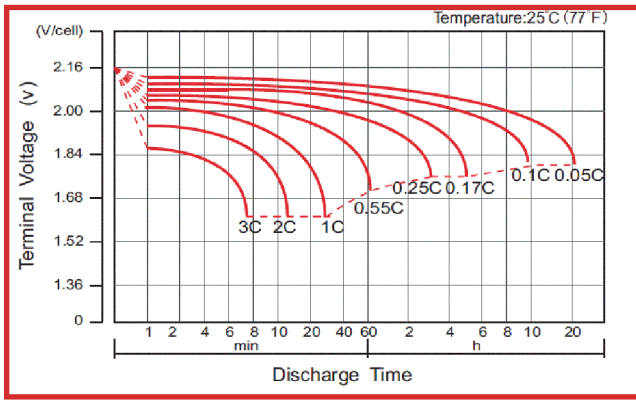
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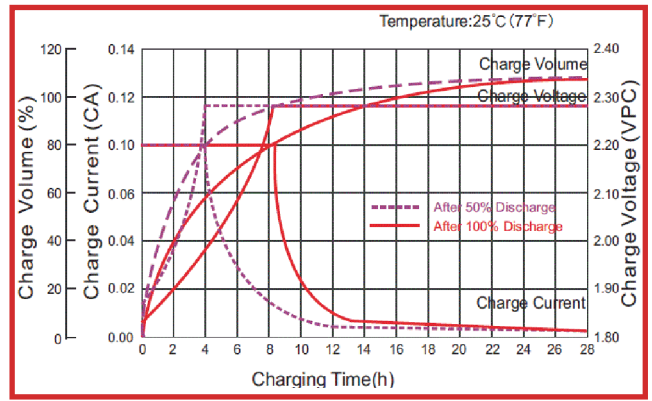
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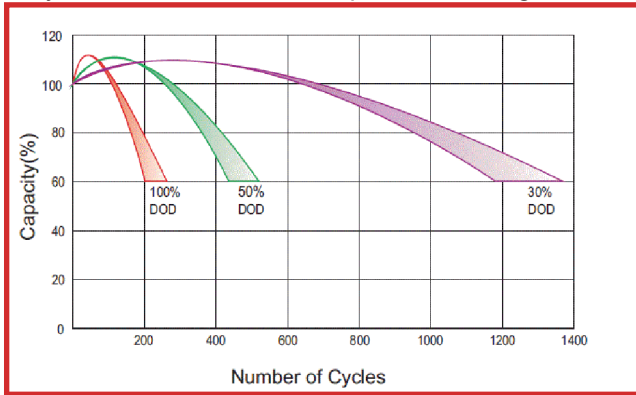
Discharge Characteristics Curve Charge



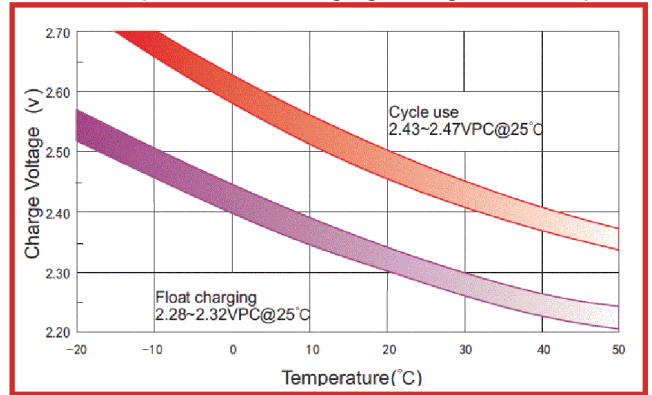
Charge Characteristic Curve For Standby Use



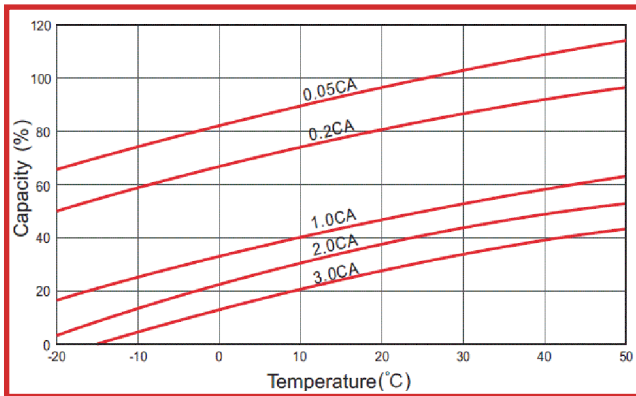
Cycle Life In Relation To Depth Of Discharge



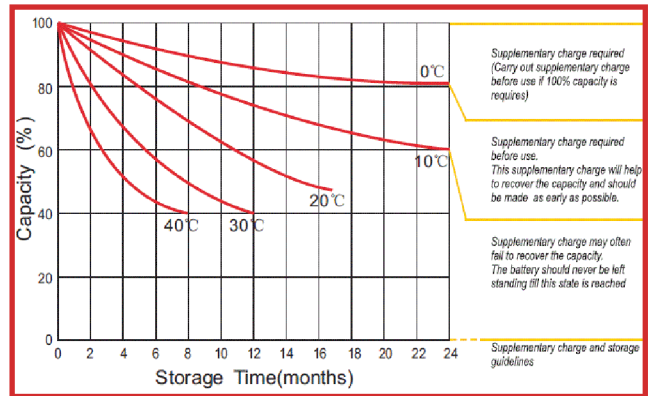
Relationship Between Charging Voltage And Temperature



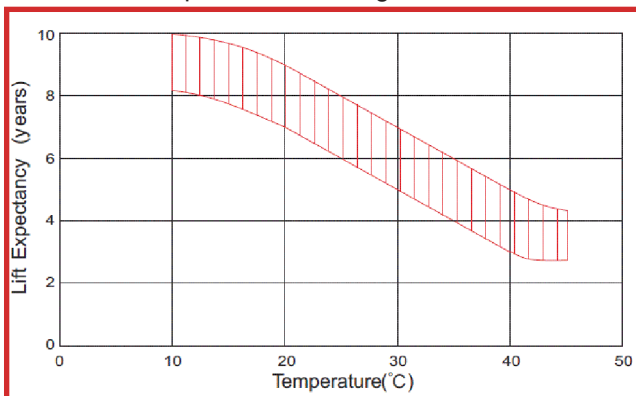
Temperature Effects On Capacity



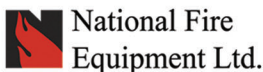
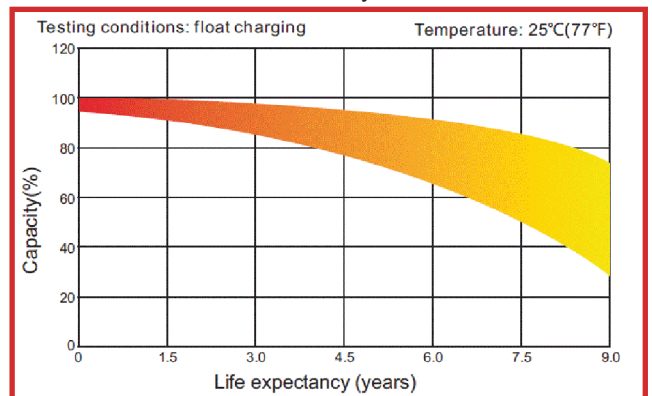
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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MISSISSAUGA: (905) 565-1385

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National Fire Equipment Ltd.

**Model BAT12V4.5A - 12 Volt - 4.5 AMP
General Purpose Battery**

Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	4.5Ah@20hour-rate to 1.75V per cell @25°C
Weight Approx.	Approx. 1.35 Kg (Tolerance±4.0%)
Internal Resistance	Approx. 38 mΩ
Terminal	F1/F2
Max. Discharge Current	45A (5 sec)
Short Circuit Current	230A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	1.36 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±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

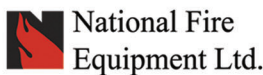
Length	90±1.5mm (3.54 inches)
Width	70±1.5mm (2.76 inches)
Height	101±1.5mm (3.98 inches)
Total Height	107±1.5mm (4.21 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V												
1.65V												
1.70V												
1.75V												
1.80V												
1.85V												

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V												
1.65V												
1.70V												
1.75V												
1.80V												
1.85V												



TORONTO: (905) 761-6355
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OTTAWA: (613) 723-6071

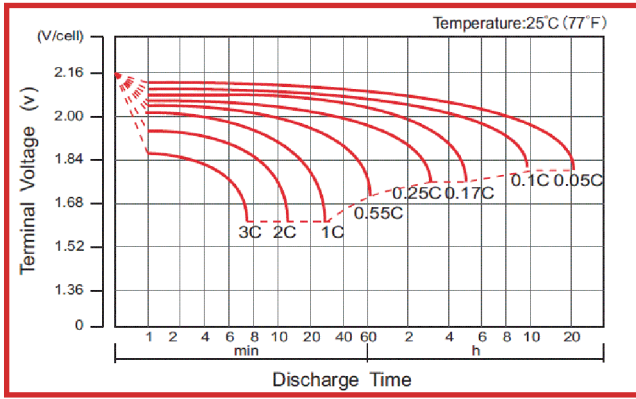
VANCOUVER: (604) 420-1131
Toll Free: (800)-667-2138
BURNABY: (604)-299-4498

EDMONTON: (780) 455-3870
Toll Free: (888)-891-1008
CALGARY: (403) 236-5661

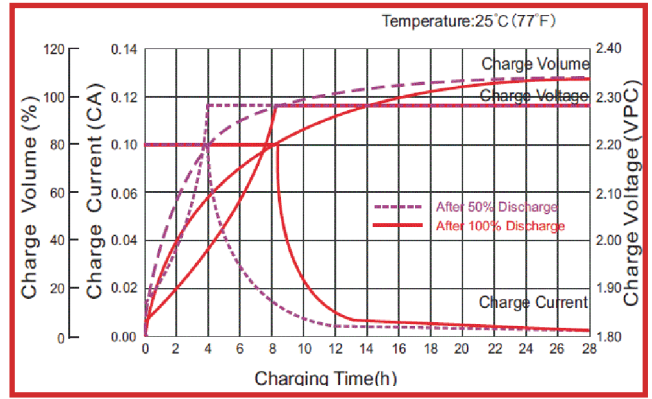
MONCTON: (506) 859-7277
Toll Free: (877) 816-3473
MISSISSAUGA: (905) 565-1385

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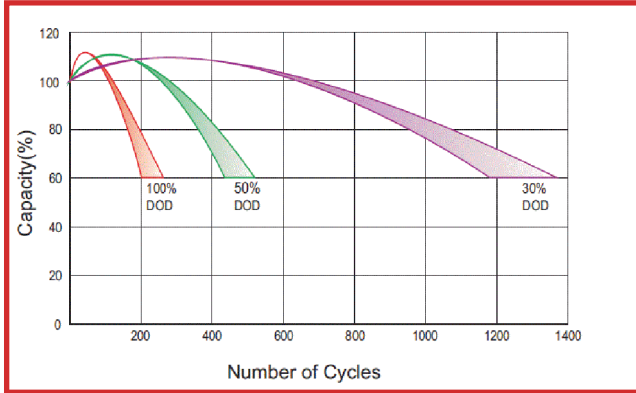
Discharge Characteristics Curve Charge



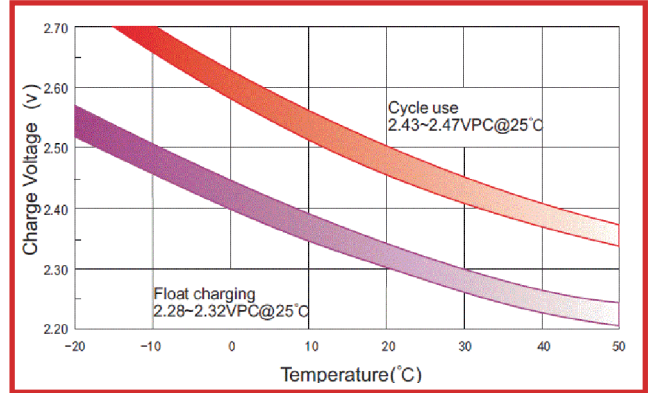
Charge Characteristic Curve For Standby Use



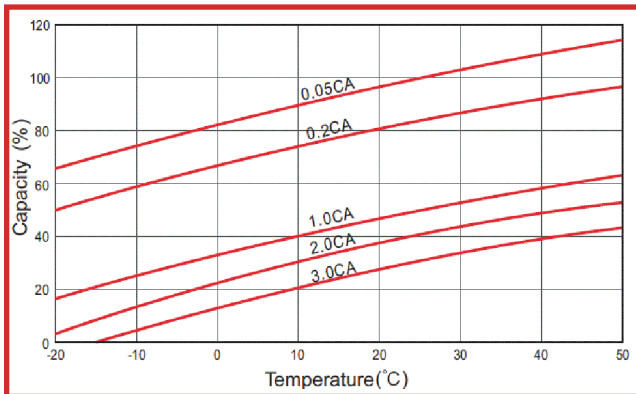
Cycle Life In Relation To Depth Of Discharge



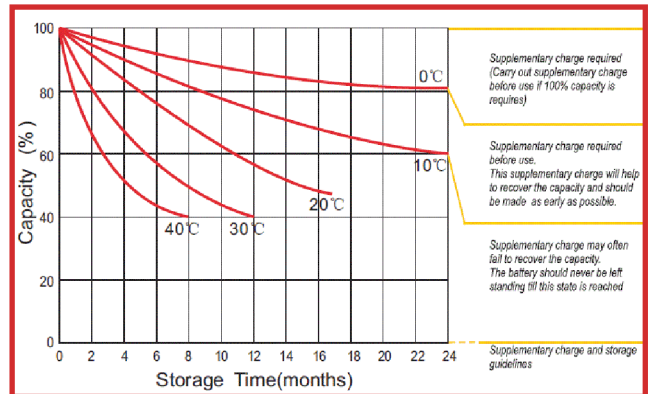
Relationship Between Charging Voltage And Temperature



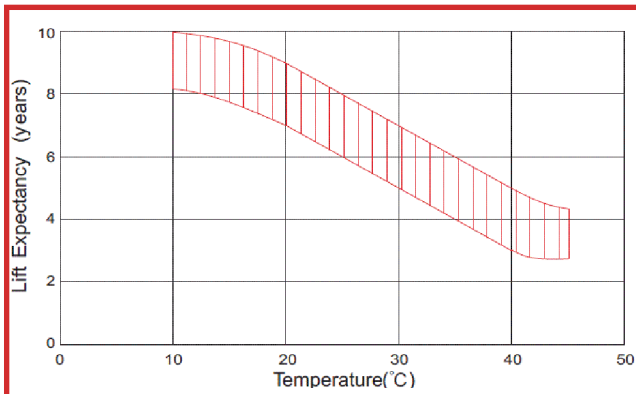
Temperature Effects On Capacity



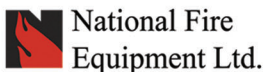
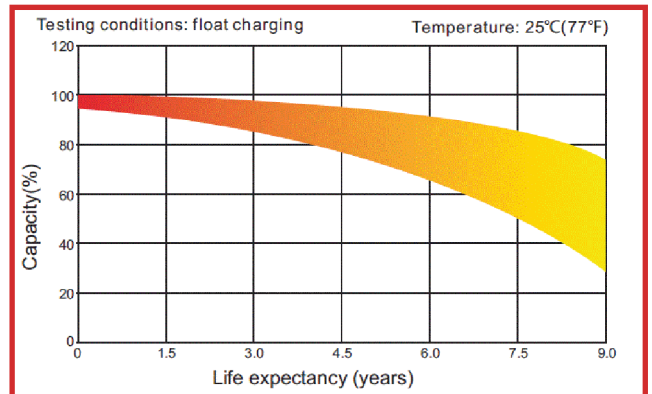
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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National Fire Equipment Ltd.

Model BAT12V7A - 12 Volt - 7 AMP General Purpose Battery

Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	7Ah@20hour-rate to 1.75V per cell @25°C
Weight Approx.	Approx. 2.0 Kg (Tolerance±4.0%)
Internal Resistance	Approx. 30 mΩ
Terminal	F1/F2
Max. Discharge Current	70A (5 sec)
Short Circuit Current	340A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	2.1A
Reference Capacity	C3 5.43AH C5 6.13AH C10 6.58AH C20 7.04AH
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±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

Length	90±1.5mm (3.54 inches)
Width	70±1.5mm (2.76 inches)
Height	101±1.5mm (3.98 inches)
Total Height	107±1.5mm (4.21 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	26.92	17.74	13.22	7.650	4.465	2.634	1.915	1.525	1.287	0.860	0.701	0.364
1.65V	25.95	17.21	12.87	7.482	4.382	2.596	1.890	1.506	1.273	0.852	0.694	0.362
1.70V	24.68	16.52	12.42	7.260	4.273	2.545	1.856	1.481	1.253	0.840	0.685	0.358
1.75V	23.06	15.62	11.82	6.969	4.129	2.477	1.811	1.447	1.226	0.825	0.673	0.352
1.80V	21.01	15.62	11.06	6.593	3.941	2.388	1.752	1.403	1.192	0.804	0.658	0.346
1.85V	18.49	14.47	10.10	6.111	3.698	2.272	1.674	1.345	1.146	0.777	0.637	0.336

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	46.34	30.60	23.46	14.10	8.47	5.07	3.71	2.97	2.52	1.71	1.40	0.73
1.65V	45.85	30.48	23.32	14.00	8.40	5.03	3.69	2.95	2.50	1.69	1.39	0.72
1.70V	44.10	29.58	22.69	13.66	8.22	4.95	3.63	2.91	2.47	1.67	1.37	0.72
1.75V	41.94	28.47	21.93	13.25	7.99	4.84	3.56	2.85	2.43	1.64	1.35	0.71
1.80V	38.88	26.85	20.80	12.66	7.66	4.69	3.45	2.78	2.36	1.61	1.32	0.69
1.85V	34.82	24.62	19.26	11.85	7.24	4.48	3.32	2.67	2.28	1.56	1.28	0.68



**National Fire
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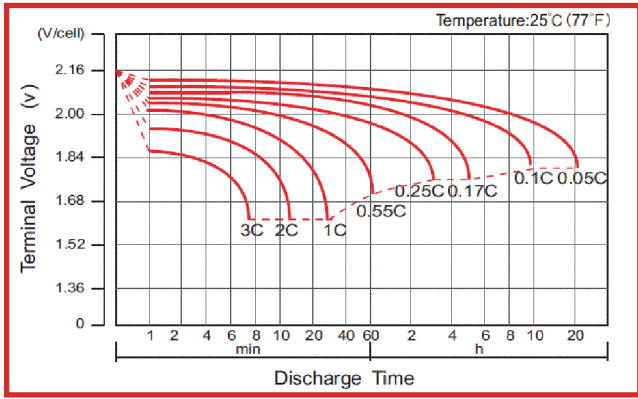
CALGARY: (403) 236-5661

MONCTON: (506) 859-7277
Toll Free: (877) 816-3473

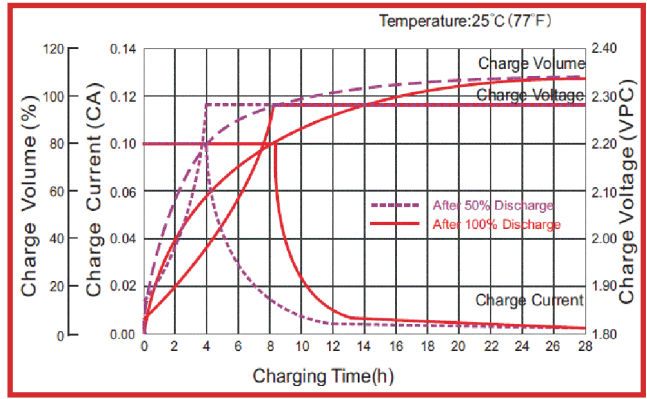
MISSISSAUGA: (905) 565-1385

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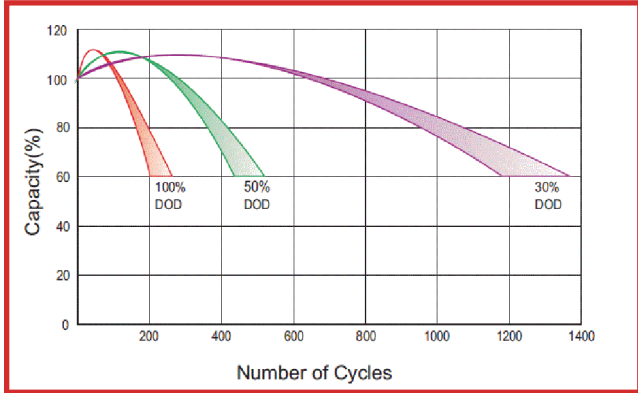
Discharge Characteristics Curve Charge



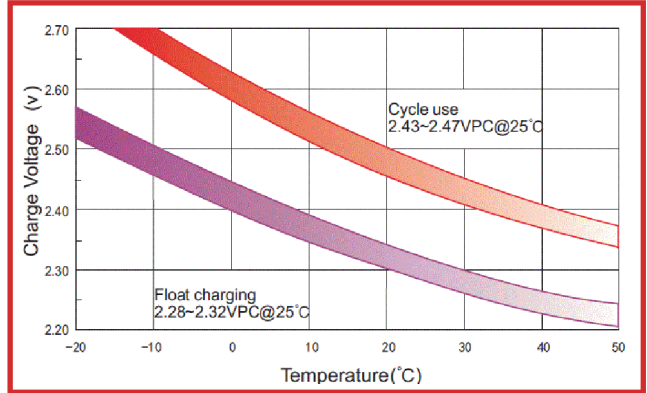
Charge Characteristic Curve For Standby Use



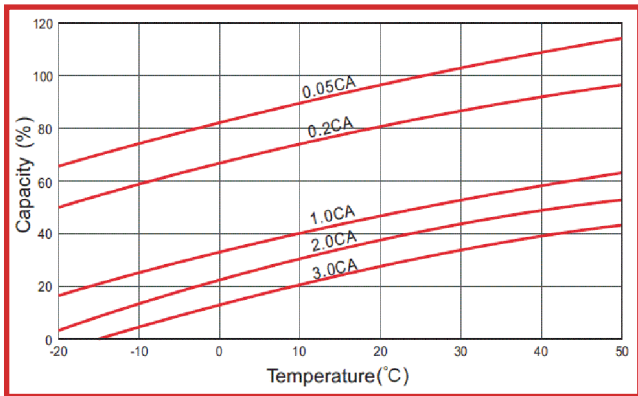
Cycle Life In Relation To Depth Of Discharge



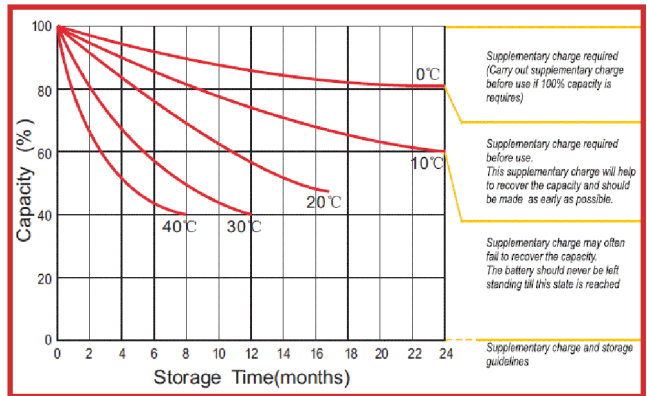
Relationship Between Charging Voltage And Temperature



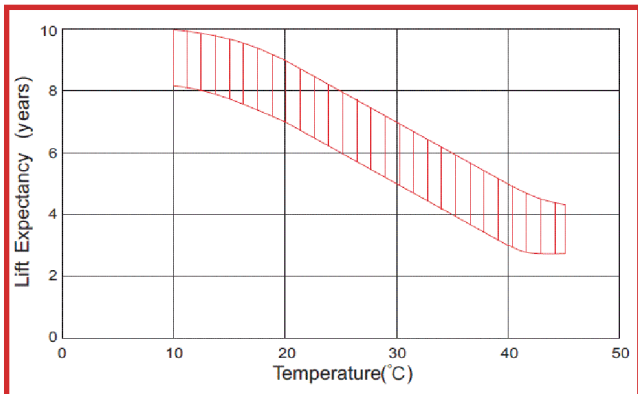
Temperature Effects On Capacity



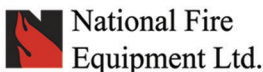
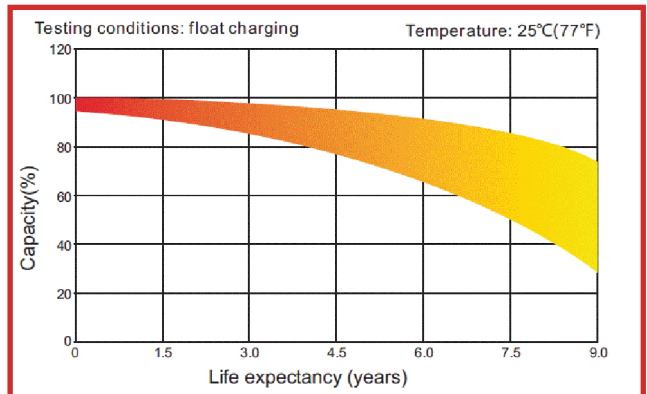
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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National Fire Equipment Ltd.

Model BAT12V12A - 12 Volt - 12 AMP General Purpose Battery

Specification

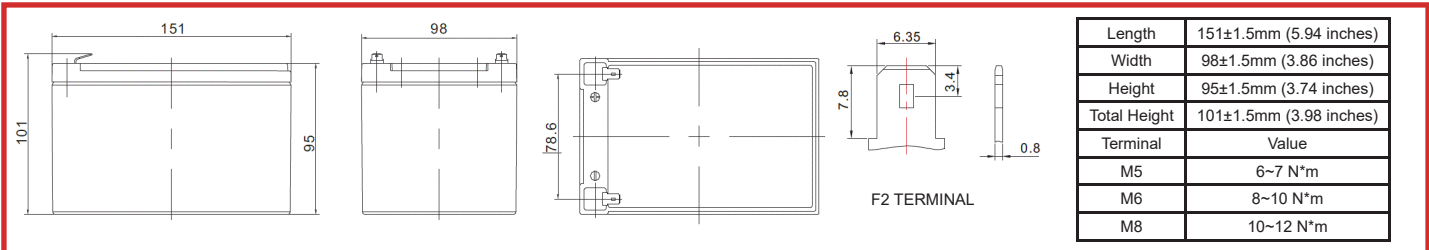
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	12Ah@20hour-rate to 1.75V per cell @25°C
Weight Approx.	Approx. 3.30 Kg (Tolerance±4.0%)
Internal Resistance	Approx. 16.5 mΩ
Terminal	F1/F2
Max. Discharge Current	120A (5 sec)
Short Circuit Current	570A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	3.6A
Reference Capacity	C3 9.31AH C5 10.5AH C10 11.3AH C20 12.1AH
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±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

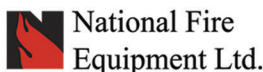


Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	46.15	30.41	22.66	13.11	7.654	4.516	3.283	2.614	2.207	1.475	1.201	0.625
1.65V	44.48	29.50	22.07	12.83	7.513	4.450	3.239	2.582	2.181	1.460	1.190	0.620
1.70V	42.31	28.31	21.29	12.45	7.325	4.362	3.181	2.539	2.147	1.440	1.174	0.613
1.75V	39.53	26.77	20.27	11.95	7.078	4.246	3.104	2.481	2.102	1.414	1.154	0.604
1.80V	36.01	24.81	18.96	11.30	6.755	4.093	3.003	2.405	2.043	1.379	1.127	0.592
1.85V	31.69	22.35	17.31	10.48	6.340	3.894	2.870	2.306	1.964	1.332	1.092	0.577

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	79.43	52.46	40.21	24.18	14.53	8.69	6.36	5.09	4.32	2.92	2.40	1.25
1.65V	78.60	52.25	39.98	24.00	14.41	8.62	6.32	5.06	4.29	2.90	2.38	1.24
1.70V	75.60	50.71	38.91	23.42	14.10	8.48	6.22	4.98	4.23	2.87	2.35	1.23
1.75V	71.89	48.81	37.59	22.71	13.69	8.29	6.10	4.89	4.16	2.82	2.31	1.21
1.80V	66.65	46.02	35.66	21.70	13.13	8.03	5.92	4.76	4.05	2.76	2.26	1.19
1.85V	59.69	42.20	33.02	20.32	12.41	7.68	5.68	4.58	3.91	2.76	2.19	1.16



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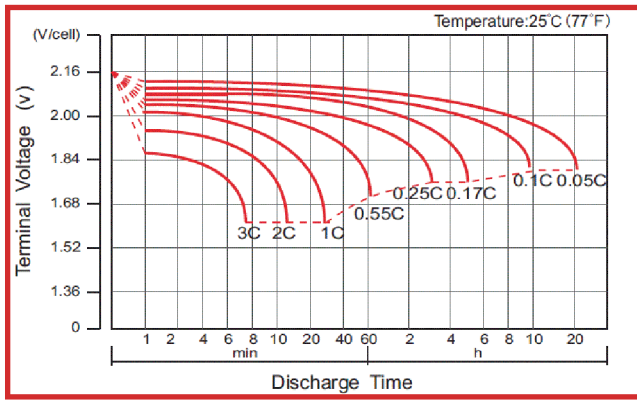
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BURNABY: (604)-299-4498

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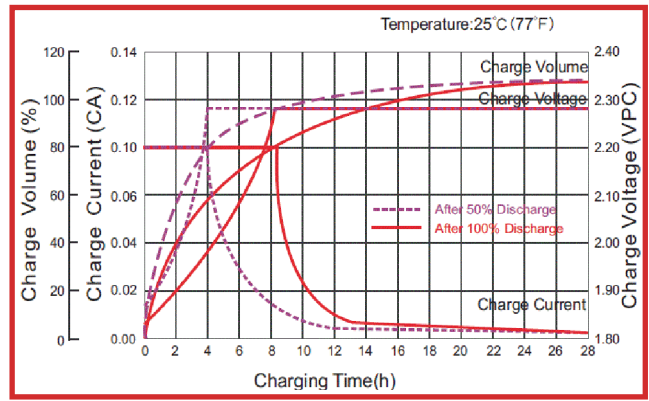
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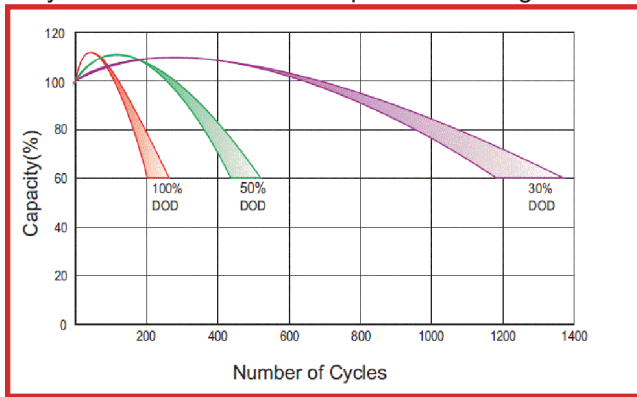
Discharge Characteristics Curve Charge



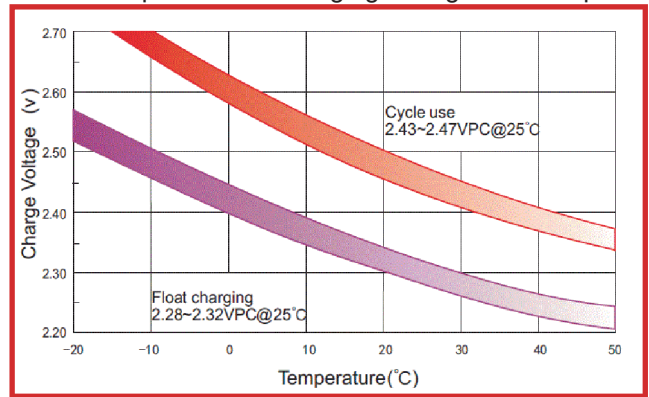
Charge Characteristic Curve For Standby Use



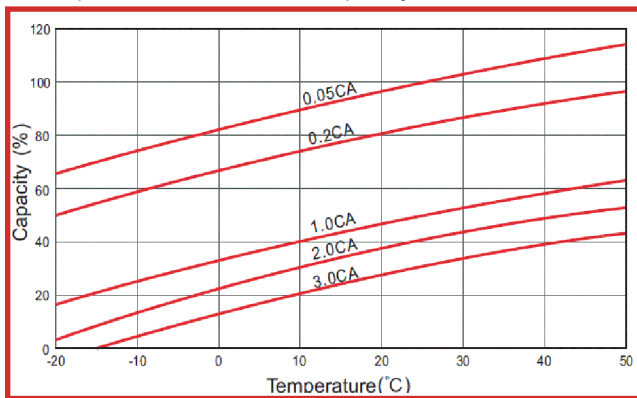
Cycle Life In Relation To Depth Of Discharge



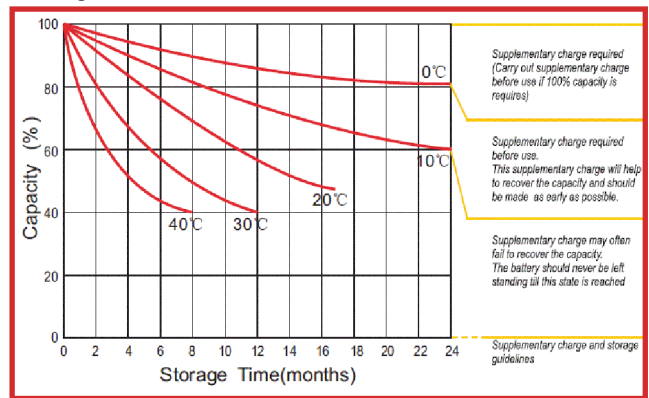
Relationship Between Charging Voltage And Temperature



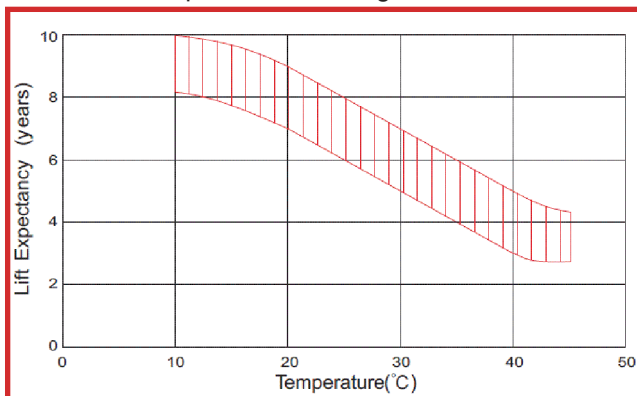
Temperature Effects On Capacity



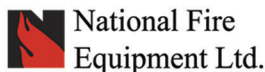
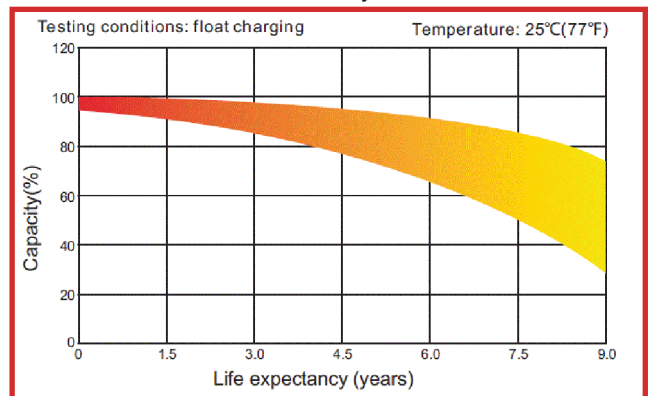
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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Toll Free: (877) 816-3473
MISSISSAUGA: (905) 565-1385

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National Fire Equipment Ltd.

Model BAT12V18A - 12 Volt - 18 AMP General Purpose Battery

Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	18Ah@20hour-rate to 1.75V per cell @25°C
Weight Approx.	Approx. 5.0 Kg (Tolerance±4.0%)
Internal Resistance	Approx. 14 mΩ
Terminal	F3(M5)/F13(M5)
Max. Discharge Current	180A (5 sec)
Short Circuit Current	720A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	5.4A
Reference Capacity	C3 13.9A H C5 15.7AH C10 16.8AH C20 18.0AH
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±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

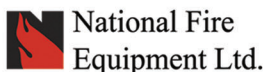
Length	181±1.5mm (7.13 inches)
Width	77±1.5mm (3.03 inches)
Height	167±1.5mm (6.57 inches)
Total Height	167±1.5mm (6.57 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	69.22	45.61	33.99	19.67	11.40	6.73	4.89	3.89	3.29	2.20	1.79	0.93
1.65V	66.72	44.25	33.10	19.24	11.19	6.63	4.83	3.85	3.25	2.17	1.77	0.92
1.70V	63.47	42.47	31.93	18.67	10.91	6.50	4.74	3.78	3.20	2.14	1.75	0.91
1.75V	59.29	40.16	30.41	17.92	10.54	6.32	4.62	3.70	3.13	2.11	1.72	0.90
1.80V	54.02	37.22	28.45	16.95	10.06	6.10	4.47	3.58	3.04	2.05	1.68	0.88
1.85V	47.54	33.53	25.97	15.72	9.44	5.80	4.27	3.44	2.93	1.98	1.63	0.86

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	119.2	78.70	60.32	36.27	21.64	12.94	9.48	7.59	6.43	4.35	3.57	1.86
1.65V	117.9	78.37	59.97	36.00	21.46	12.84	9.41	7.53	6.39	4.32	3.54	1.85
1.70V	113.4	76.06	58.36	35.13	21.00	12.63	9.27	7.42	6.30	4.27	3.50	1.83
1.75V	107.8	73.22	56.38	34.07	20.39	12.35	9.08	7.28	6.19	4.20	3.44	1.81
1.80V	99.97	69.03	53.49	32.55	19.56	11.97	8.82	7.09	6.04	4.11	3.37	1.77
1.85V	89.54	63.30	49.53	30.48	18.48	11.45	8.47	6.82	5.83	3.98	3.27	1.73



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

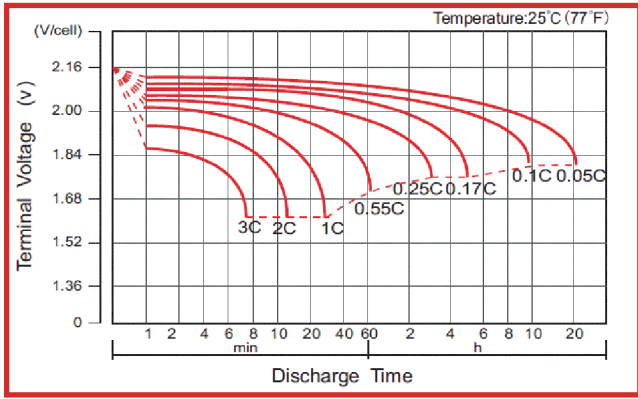
VANCOUVER: (604) 420-1131
Toll Free: (800)-667-2138
BURNABY: (604)-299-4498

EDMONTON: (780) 455-3870
Toll Free: (888)-891-1008
CALGARY: (403) 236-5661

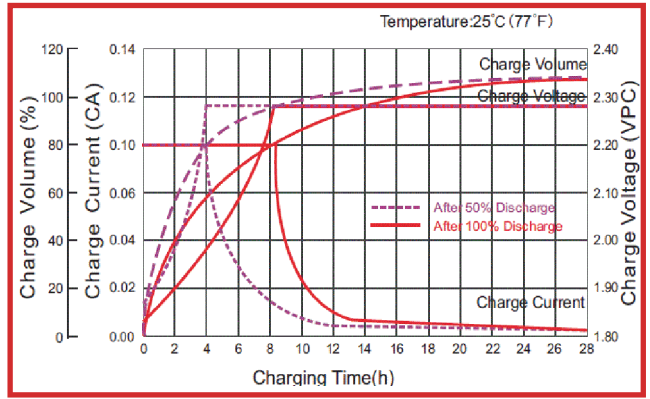
MONCTON: (506) 859-7277
Toll Free: (877) 816-3473
MISSISSAUGA: (905) 565-1385

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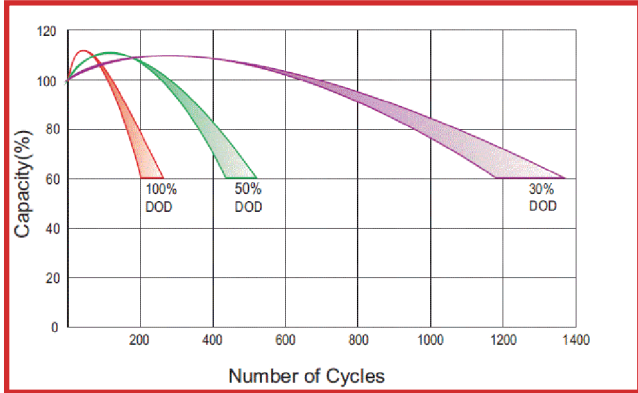
Discharge Characteristics Curve Charge



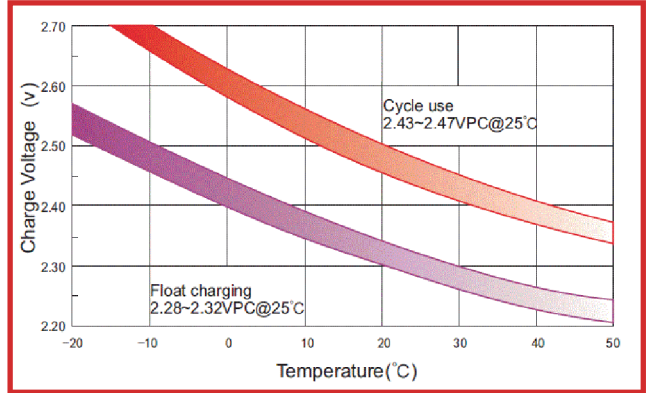
Charge Characteristic Curve For Standby Use



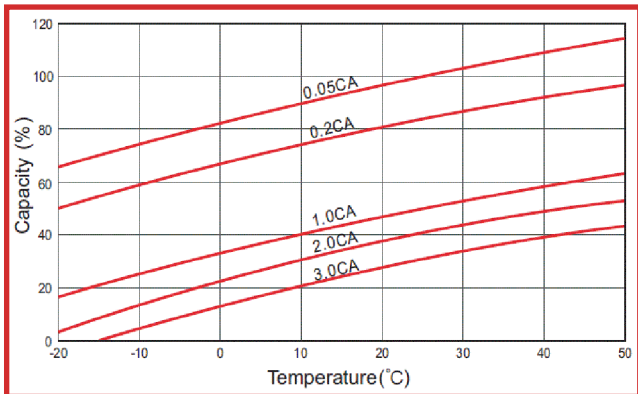
Cycle Life In Relation To Depth Of Discharge



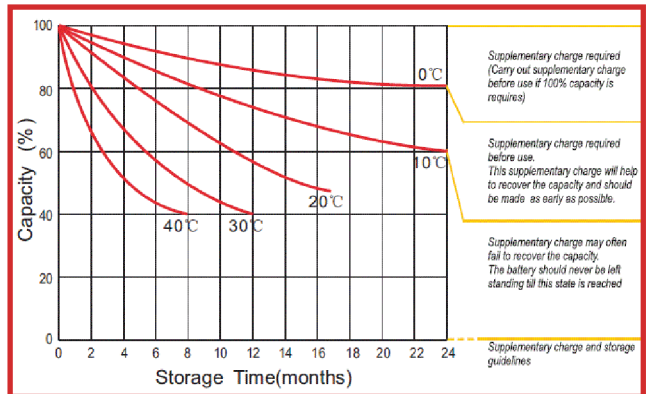
Relationship Between Charging Voltage And Temperature



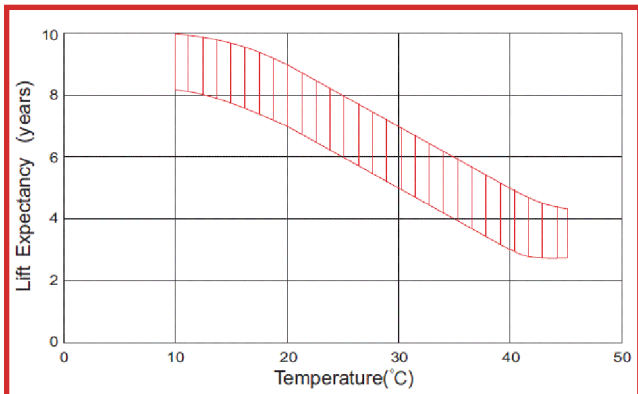
Temperature Effects On Capacity



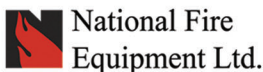
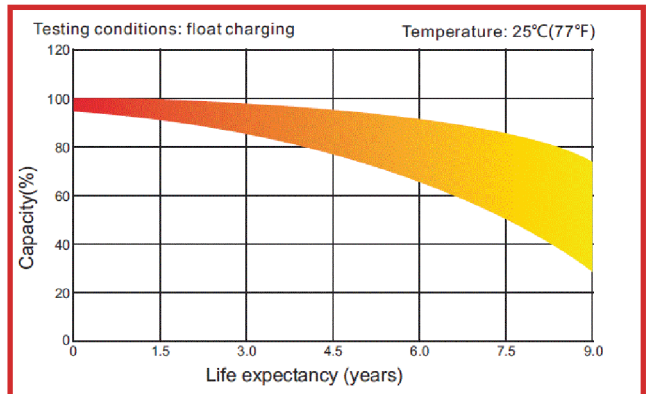
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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OTTAWA: (613) 723-6071

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Toll Free: (800)-667-2138
BURNABY: (604)-299-4498

EDMONTON: (780) 455-3870
Toll Free: (888)-891-1008
CALGARY: (403) 236-5661

MONCTON: (506) 859-7277
Toll Free: (877) 816-3473
MISSISSAUGA: (905) 565-1385

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National Fire Equipment Ltd.

**Model BAT12V26A - 12 Volt - 26 AMP
General Purpose Battery**

Specification

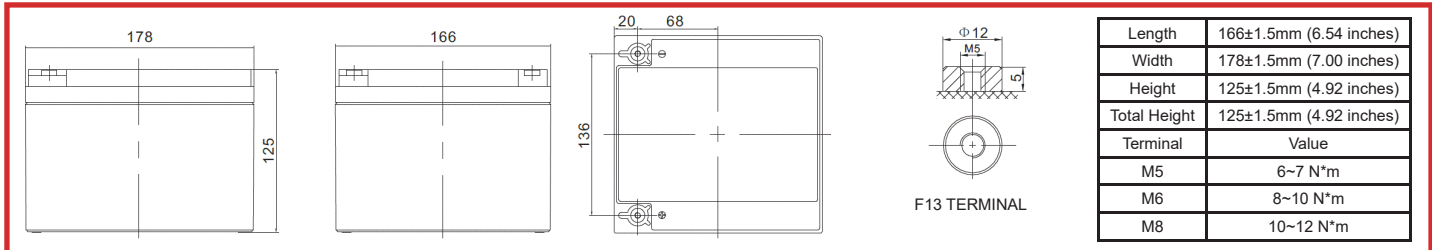
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	26Ah@20hour-rate to 1.75V per cell @25°C
Weight Approx.	Approx. 8.1 Kg (Tolerance±3.0%)
Internal Resistance	Approx. 10 mΩ
Terminal	F3(M5)/F13(M5)/T24(M5)
Max. Discharge Current	260A (5 sec)
Short Circuit Current	900A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	7.8A
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±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

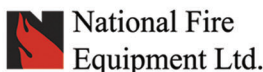


Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	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	3.195	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	2.987	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



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

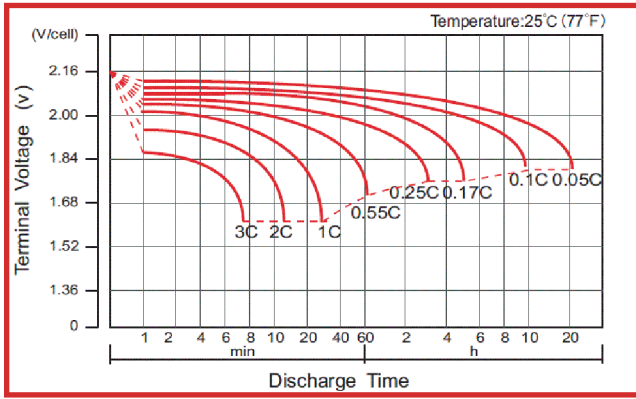
VANCOUVER: (604) 420-1131
Toll Free: (800)-667-2138
BURNABY: (604)-299-4498

EDMONTON: (780) 455-3870
Toll Free: (888)-891-1008
CALGARY: (403) 236-5661

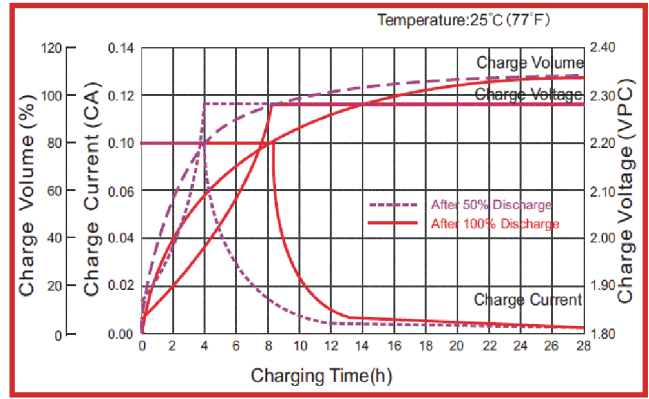
MONCTON: (506) 859-7277
Toll Free: (877) 816-3473
MISSISSAUGA: (905) 565-1385

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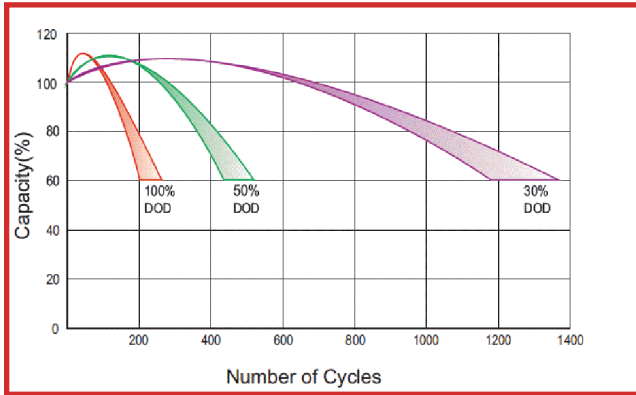
Discharge Characteristics Curve Charge



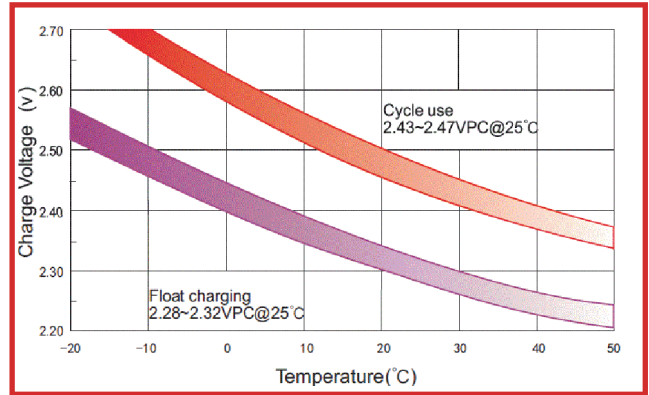
Charge Characteristic Curve For Standby Use



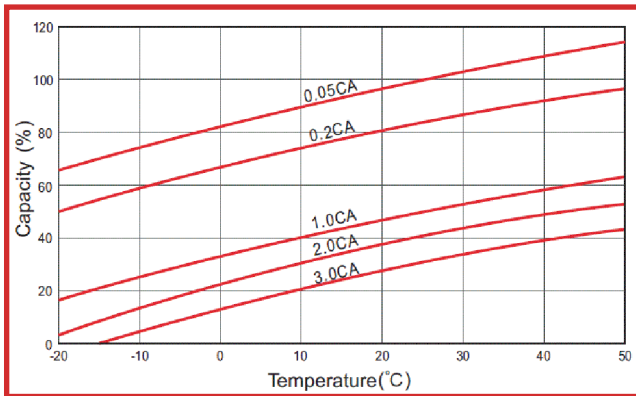
Cycle Life In Relation To Depth Of Discharge



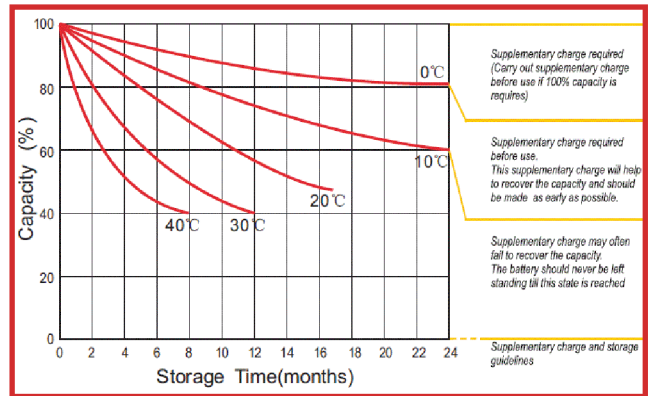
Relationship Between Charging Voltage And Temperature



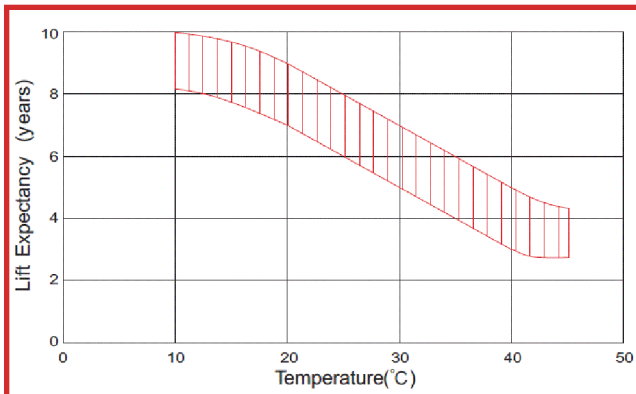
Temperature Effects On Capacity



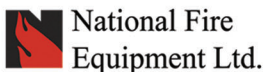
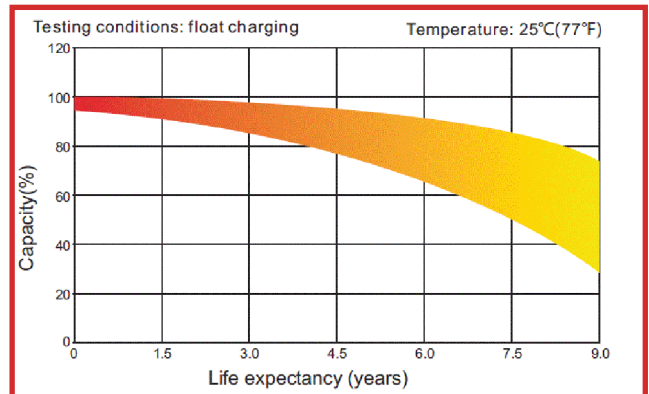
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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BURNABY: (604)-299-4498

EDMONTON: (780) 455-3870
Toll Free: (888)-891-1008
CALGARY: (403) 236-5661

MONCTON: (506) 859-7277
Toll Free: (877) 816-3473
MISSISSAUGA: (905) 565-1385

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National Fire Equipment Ltd.

Model BAT12V33A - 12 Volt - 33 AMP General Purpose Battery

Specification

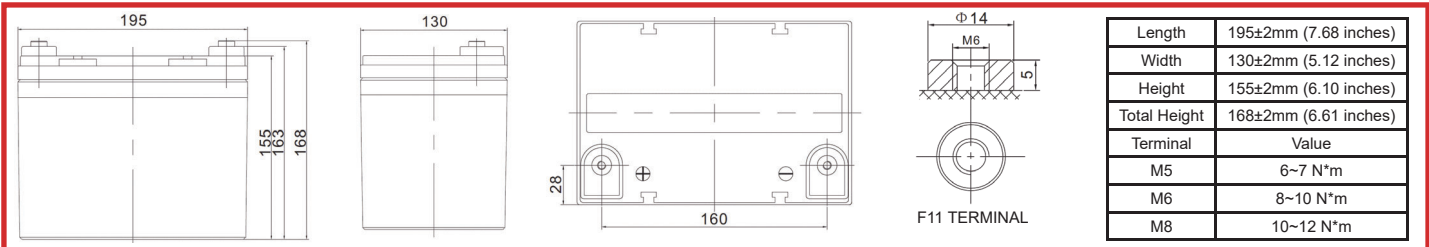
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	33Ah@10hour-rate to 1.80V per cell @25°C
Weight Approx.	9.9 Kg (Tolerance±3.0%)
Max. Discharge Current	330A (5 sec)
Internal Resistance	Approx. 9.0 mΩ
Terminal	F7(M8)/F11(M6)
Short Circuit Current	825A
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	9.9 A
Reference Capacity	C3 25.6AH C5 29.5AH C10 33.0AH C20 34.0AH
Standby Use Voltage	13.6 V~13.8 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±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.



RA series is a general purpose battery with 12 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 RA 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

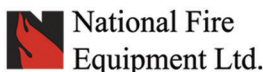


Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	112.3	79.4	59.8	34.6	20.5	12.3	9.03	7.33	6.19	4.14	3.52	1.80
1.65V	108.3	77.1	58.3	33.9	20.1	12.1	8.91	7.24	6.12	4.09	3.48	1.79
1.70V	103.0	74.0	56.2	32.9	19.6	11.9	8.75	7.12	6.02	4.04	3.44	1.77
1.75V	96.2	69.9	53.5	31.5	19.0	11.6	8.54	6.96	5.90	3.96	3.38	1.74
1.80V	87.6	64.8	50.1	29.8	18.1	11.1	8.26	6.75	5.73	3.87	3.30	1.71
1.85V	77.1	58.4	45.7	27.7	17.0	10.6	7.89	6.47	5.51	3.74	3.20	1.67

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	112.3	79.4	59.8	34.6	20.5	12.3	9.03	7.33	6.19	4.14	3.52	1.80
1.65V	108.3	77.1	58.3	33.9	20.1	12.1	8.91	7.24	6.12	4.09	3.48	1.79
1.70V	103.0	74.0	56.2	32.9	19.6	11.9	8.75	7.12	6.02	4.04	3.44	1.77
1.75V	96.2	69.9	53.5	31.5	19.0	11.6	8.54	6.96	5.90	3.96	3.38	1.74
1.80V	87.6	64.8	50.1	29.8	18.1	11.1	8.26	6.75	5.73	3.87	3.30	1.71
1.85V	77.1	58.4	45.7	27.7	17.0	10.6	7.89	6.47	5.51	3.74	3.20	1.67



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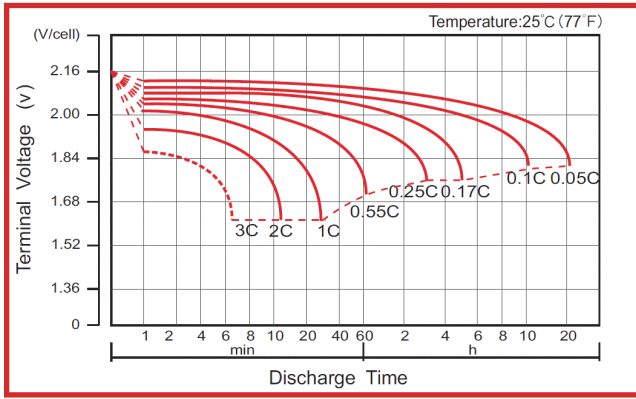
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BURNABY: (604)-299-4498

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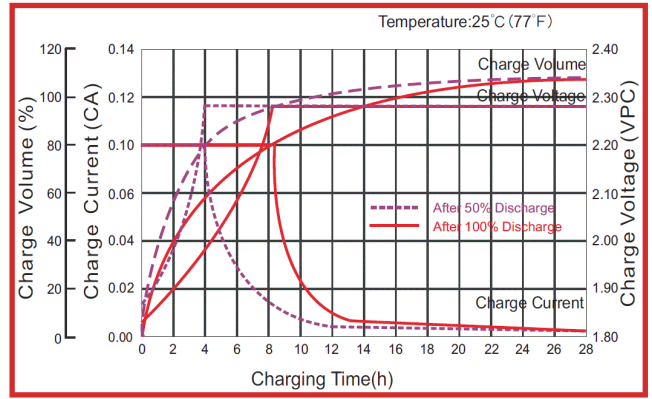
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Toll Free: (877) 816-3473
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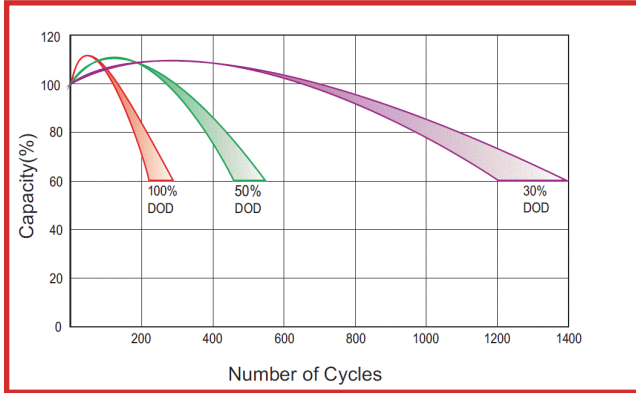
Discharge Characteristics Curve Charge



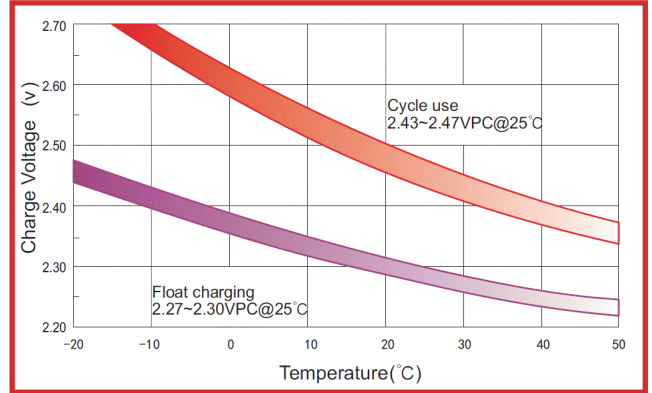
Charge Characteristic Curve For Standby Use



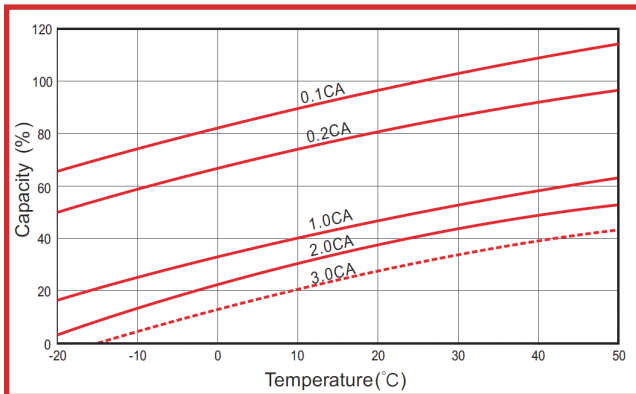
Cycle Life In Relation To Depth Of Discharge



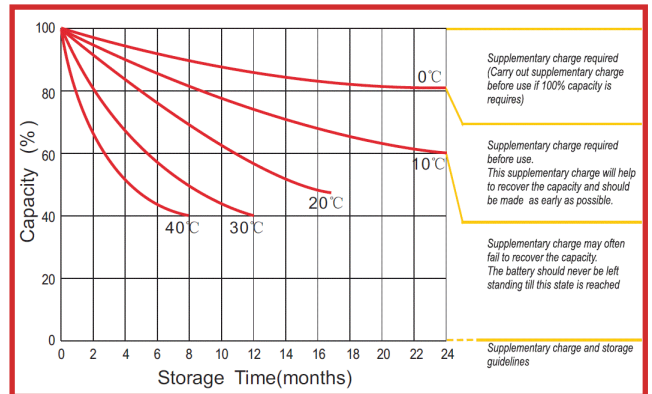
Relationship Between Charging Voltage And Temperature



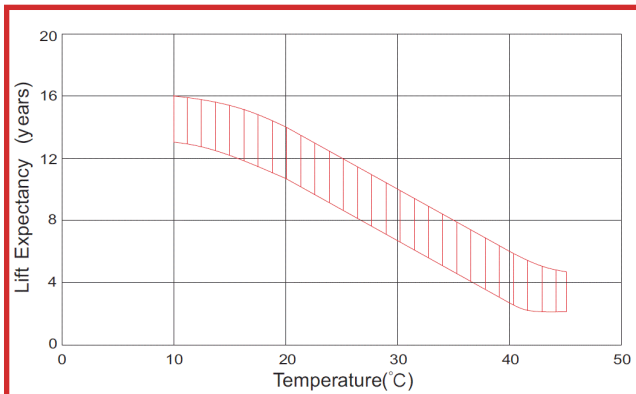
Temperature Effects On Capacity



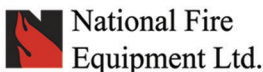
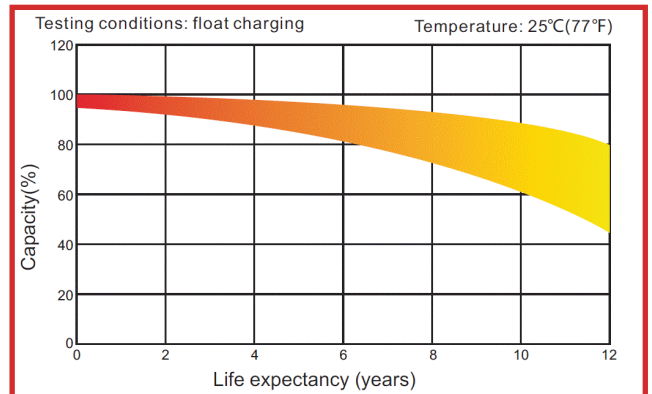
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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Toll Free: (877) 816-3473
MISSISSAUGA: (905) 565-1385

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National Fire Equipment Ltd.

Model BAT12V40A - 12 Volt - 40 AMP General Purpose Battery

Specification

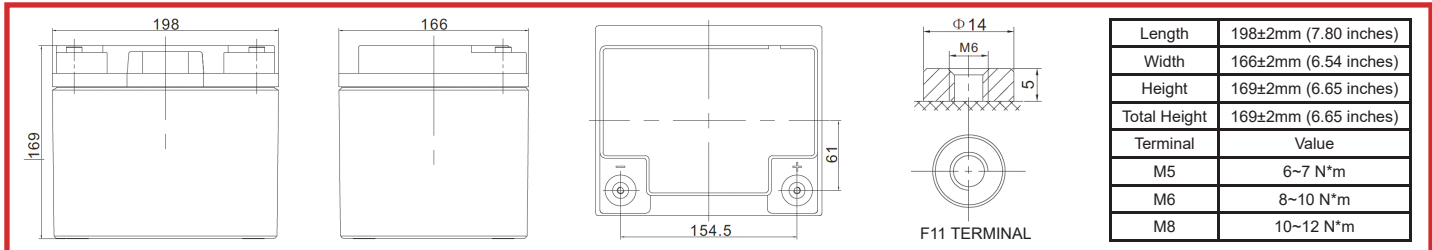
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	40Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 12.4 Kg (Tolerance±3.0%)
Internal Resistance	Approx. 8.0 mΩ
Terminal	F4(M6)/F11(M6)
Max. Discharge Current	400A (5 sec)
Short Circuit Current	920A
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	12 A
Reference Capacity	C3 31.0AH C5 35.8AH C10 40.0AH C20 42.2AH
Standby Use Voltage	13.6 V~13.8 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±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.



RA series is a general purpose battery with 12 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 RA 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

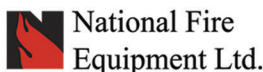


Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	136.1	96.3	72.5	42.0	24.9	14.9	10.9	8.89	7.50	5.01	4.26	2.19
1.65V	131.2	93.4	70.6	41.0	24.4	14.7	10.8	8.78	7.42	4.96	4.22	2.17
1.70V	124.8	89.7	68.1	39.8	23.8	14.4	10.6	8.63	7.30	4.90	4.17	2.15
1.75V	116.6	84.8	64.9	38.2	23.0	14.0	10.3	8.44	7.15	4.81	4.10	2.11
1.80V	106.2	78.6	60.7	36.2	22.0	13.5	10.0	8.18	6.95	4.69	4.00	2.07
1.85V	93.5	70.8	55.4	33.5	20.6	12.9	9.57	7.84	6.68	4.53	3.88	2.02

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	234.3	166.1	128.7	77.4	47.2	28.7	21.2	17.3	14.7	9.94	8.51	4.37
1.65V	231.9	165.5	127.9	76.8	46.8	28.5	21.1	17.2	14.6	9.87	8.44	4.34
1.70V	223.0	160.6	124.5	74.9	45.8	28.0	20.7	16.9	14.4	9.75	8.34	4.30
1.75V	212.1	154.6	120.3	72.7	44.5	27.4	20.3	16.6	14.1	9.59	8.21	4.24
1.80V	196.6	145.7	114.1	69.4	42.7	26.5	19.7	16.2	13.8	9.37	8.03	4.17
1.85V	176.1	133.6	105.7	65.0	40.3	25.4	18.9	15.6	13.3	9.08	7.79	4.06



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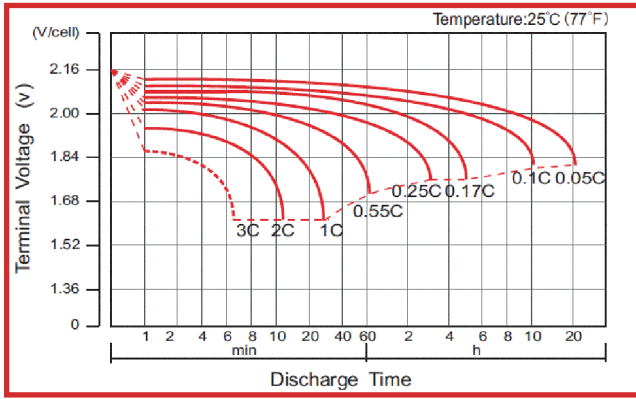
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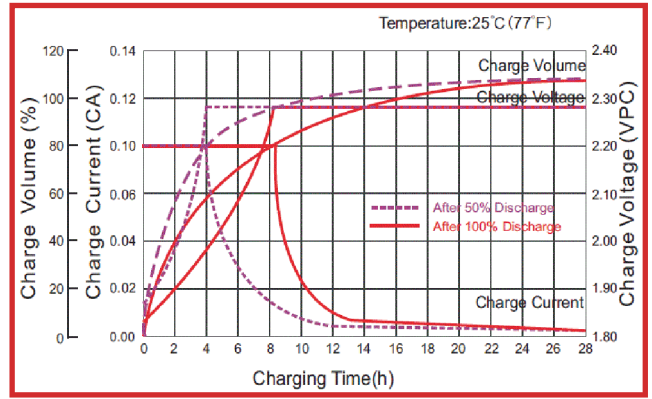
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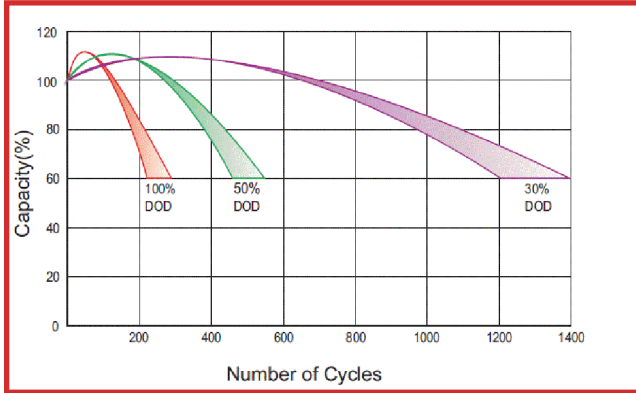
Discharge Characteristics Curve Charge



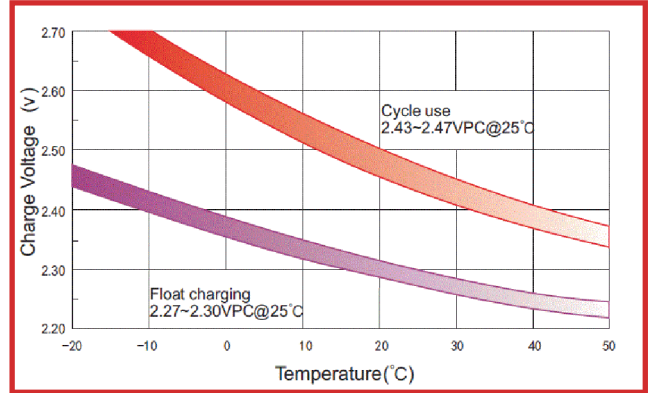
Charge Characteristic Curve For Standby Use



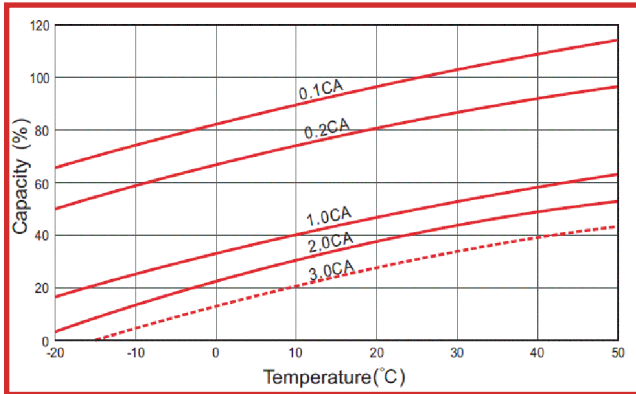
Cycle Life In Relation To Depth Of Discharge



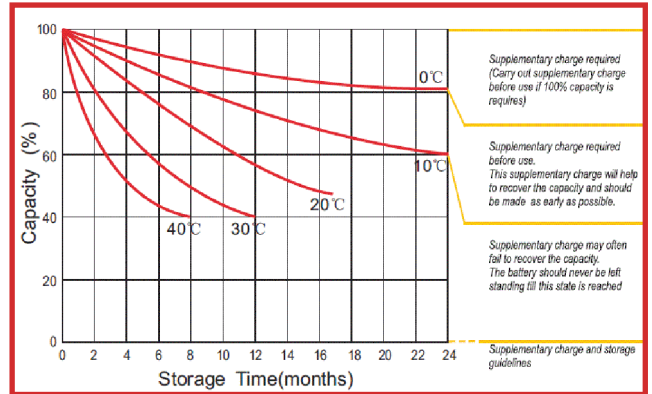
Relationship Between Charging Voltage And Temperature



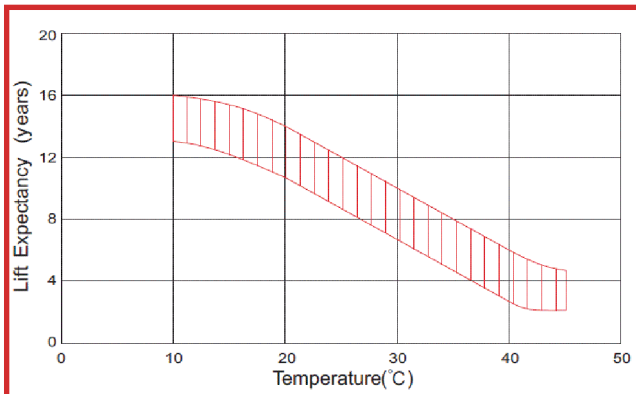
Temperature Effects On Capacity



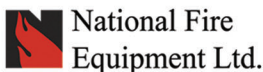
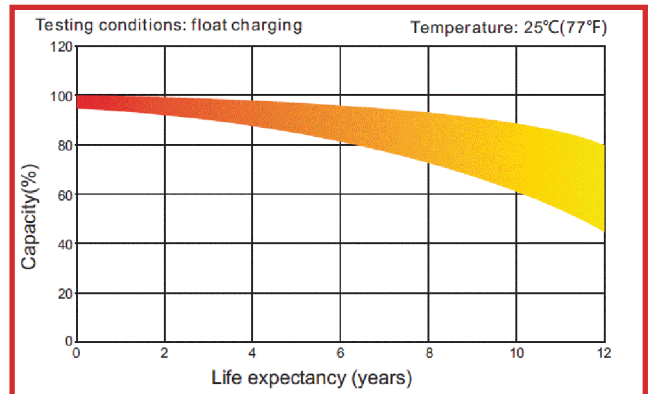
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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