

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.					

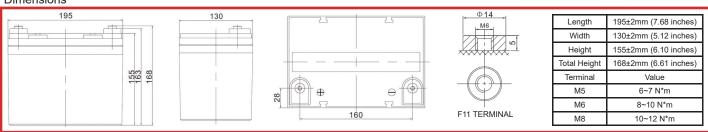


RA series is a general purpose battery with 12 years design life in float service. It meets with IEC, JIS, BS and YDT standards. With advanced AGM valve regulated technology and high purity raw material, the RA series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/ EPS, Telecom, power grid, medical equipment, emergency light and security system applications.

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MH28539

Dimensions



Constant Current Discharge Characteristics : A (25°C)

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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)

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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



National Fire Equipment Ltd. | OTTAWA: (613) 723-6071

TORONTO: (905) 761-6355 Toll Free: (800) 267-8508 Toll Free: (800)-667-2138

VANCOUVER: (604) 420-1131

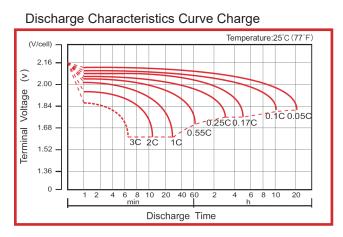
EDMONTON: (780) 455-3870 Toll Free: (888)-891-1008

CALGARY: (403) 236-5661

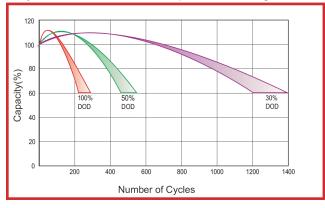
MONCTON: (506) 859-7277 Toll Free: (877) 816-3473

BURNABY: (604)-299-4498 www.nationalfire.com

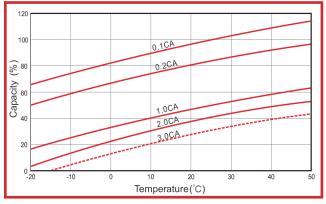
MISSISSAUGA: (905) 565-1385



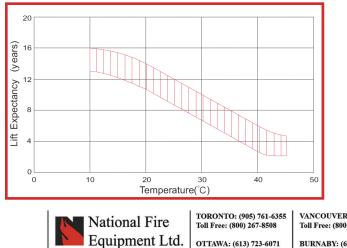
Cycle Life In Relation To Depth Of Discharge

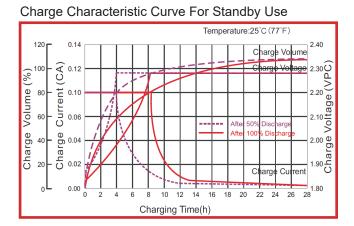


Temperature Effects On Capacity

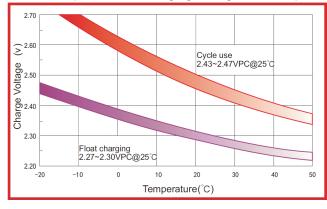


Effect Of Temperature On Long Term Life

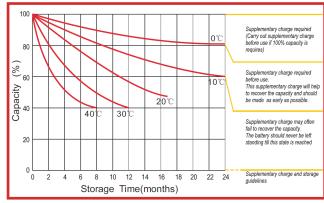




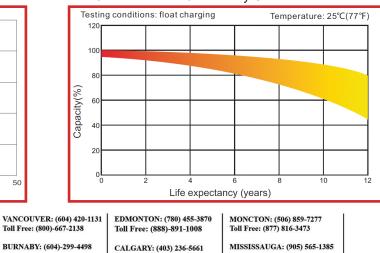
Relationship Between Charging Voltage And Temperature



Storage Characteristics



Life Characteristics Of Standby Use



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