

National Fire Equipment Ltd.

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

Specification

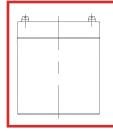
Cells Per Unit	6						
Voltage Per Unit	12						
Nominal Capacity	4.5Ah@20hour-rate to 1.75V per cell @25°C						
Weight Approx.	Approx. 1.35 Kg (Tolerance±4.0%)						
Internal Resistance	Approx. 38 mΩ						
Terminal	F1/F2						
Max. Discharge Current	45A (5 sec)						
Short Circuit Current	230A				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

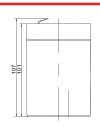


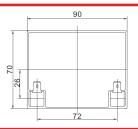
RT series is a general purpose battery with 6~8 years design life in float service. It meets with IEC, JIS, BS and YDT standards. With advanced AGM valve regulated technology and high purity raw material, the RT series battery maintains high consistency for better performance and reliable standby service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

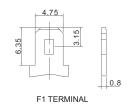


Dimensions









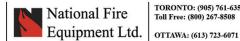
Length	90±1.5mm (3.54 inches)					
Width	70±1.5mm (2.76 inches)					
Height	101±1.5mm (3.98 inches)					
Total Height	107±1.5mm (4.21 inches)					
Terminal	Value					
M5	6~7 N*m					
M6	8~10 N*m 10~12 N*m					
M8						

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 Toll Free: (800) 267-8508

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

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

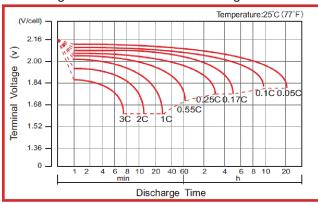
EDMONTON: (780) 455-3870 Toll Free: (888)-891-1008

CALGARY: (403) 236-5661

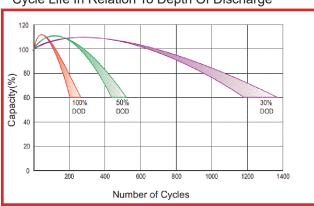
MONCTON: (506) 859-7277 Toll Free: (877) 816-3473

MISSISSAUGA: (905) 565-1385

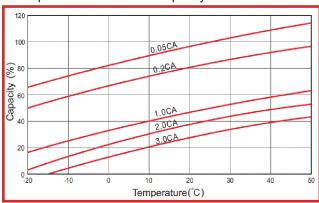
Discharge Characteristics Curve Charge



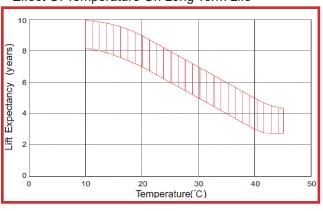
Cycle Life In Relation To Depth Of Discharge



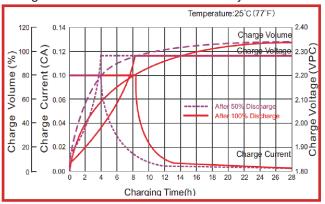
Temperature Effects On Capacity



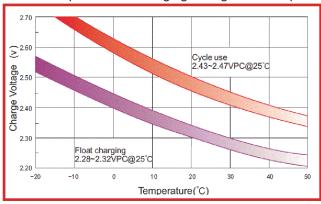
Effect Of Temperature On Long Term Life



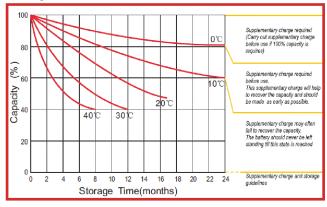
Charge Characteristic Curve For Standby Use



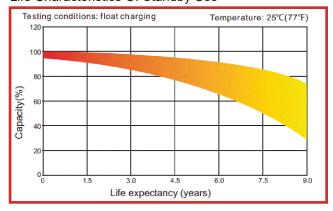
Relationship Between Charging Voltage And Temperature

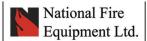


Storage Characteristics



Life Characteristics Of Standby Use





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