



# AGM LEAD ACID BATTERY

## 5.4-12 General Purpose F4.8

**AGM**  
GENERAL  
PURPOSE

### MAIN INFORMATION / INFORMATIONS GÉNÉRALES

<b>BRAND / MARQUE</b>	NX
<b>TECHNOLOGY / TECHNOLOGIE</b>	AGM Lead acid
<b>NOMINAL VOLTAGE / TENSION NOMINALE</b>	12V
<b>NOMINAL CAPACITY / CAPACITÉ NOMINALE</b>	5.4Ah (20hr)
<b>DIMENSIONS (± 2 mm) / DIMENSIONS (± 2 mm)</b>	
• <b>Length / Longueur</b>	151 ± 2mm (5.94 inches)
• <b>Width / Largeur</b>	53 ± 1mm (2.09 inches)
• <b>Height / Hauteur</b>	93 ± 1mm (3.66 inches)
• <b>Total height with terminals / Hauteur totale (avec cosSES)</b>	99 ± 1mm (3.90 inches)
<b>WEIGHT (± 2 %) / POIDS (± 2 %)</b>	Approx 1.74kg (3.84lbs)
<b>TERMINAL / TYPE DE COSSES</b>	F4.8=FASTON 4.8
<b>CASING / TYPE DE BAC</b>	UL94 V-0 (Flame retardant)
<b>COLOR / COULEUR DE BAC</b>	Black top and black case

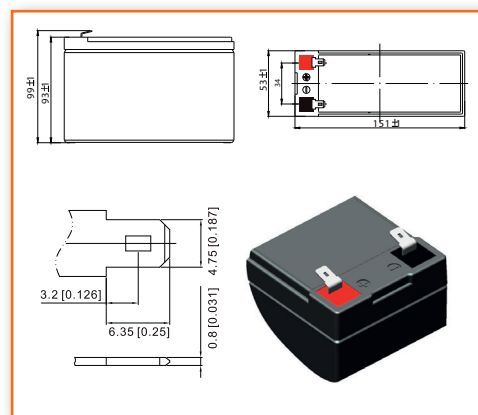


### TECHNICAL INFORMATION / INFORMATIONS TECHNIQUES

<b>CAPACITY / CAPACITÉ</b>	5.4Ah/0.252A (20hr,1.80V/cell,25°C/77°F) 4.65Ah/0.465A (10hr,1.80V/cell,25°C/77°F) 4.20Ah/0.840A (5hr,1.75V/cell,25°C/77°F) 3.66Ah/1.22A (3hr,1.75V/cell,25°C/77°F) 3.04Ah/3.04A (1hr,1.60V/cell,25°C/77°F)
<b>DISCHARGE CURRENT / COURANT DE DÉCHARGE</b>	81A (5s)
<b>INTERNAL RESISTANCE / RÉSISTANCE INTERNE</b>	Approx 30mΩ
<b>OPERATING TEMPERATURE RANGE / PLAGES DE TEMPÉRATURE</b>	
• <b>Discharging / Décharge</b>	-15°~50°C (5 ~122°F)
• <b>Charging / Charge</b>	0°~40°C (32 ~104°F)
• <b>Storage / Stockage</b>	-15°~40°C (5 ~104°F)
<b>NOMINAL OPERATING TEMPERATURE / TEMPÉRATURE D'UTILISATION</b>	25 ± 3°C (77 ± 5°F)
<b>CAPACITY VS TEMPERATURE / CAPACITÉ SELON LA TEMPÉRATURE</b>	40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%

#### Terminal

Unité : mm / Unit: inches



### APPLICATIONS

All purpose / Tout usage

UPS / Onduleur

Emergency light / Éclairage de secours

Railway signal / Signalisation ferroviaire

Alarm and security system / Alarme et sécurité

Aircraft signal / Signal d'avion

Electronic devices and equipment / Appareils et équipements électroniques

Emergency backup / Alimentation de secours

Power supply / Réserve d'énergie

<b>TMD 1 Description, classe : UN 2800 – accumulateurs inversables remplis d'électrolyte liquide, 8, none, (E)</b>	
<b>ADR : Not regulated</b>	<b>IMDG Not regulated</b>
<b>IATA : Exempt</b>	<b>Procédure TMD PROC 2 : UN 2800</b>



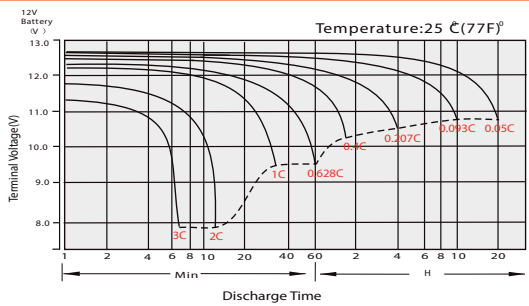
**CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C**  
**TABLE DE DÉCHARGE À COURANT ET PUISSANCE CONSTANTS (A) À 25°C**

F.V/Temps	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	9.60	6.69	5.52	4.79	3.84	2.95	2.42	1.48	1.12	0.924	0.784	0.679	0.540	0.449	0.248
1.80V/cell	11.8	7.99	6.40	5.42	4.25	3.22	2.60	1.57	1.18	0.971	0.818	0.709	0.560	0.465	0.250
1.75V/cell	14.0	9.03	7.06	5.90	4.54	3.42	2.74	1.64	1.22	1.00	0.840	0.727	0.575	0.474	0.253
1.70V/cell	15.9	9.96	7.64	6.33	4.77	3.55	2.85	1.70	1.26	1.03	0.861	0.744	0.584	0.482	0.257
1.65V/cell	17.5	10.7	8.08	6.65	4.97	3.69	2.97	1.75	1.30	1.05	0.880	0.758	0.593	0.489	0.261
1.60V/cell	18.4	11.2	8.42	6.86	5.11	3.77	3.04	1.81	1.33	1.07	0.898	0.773	0.606	0.497	0.262

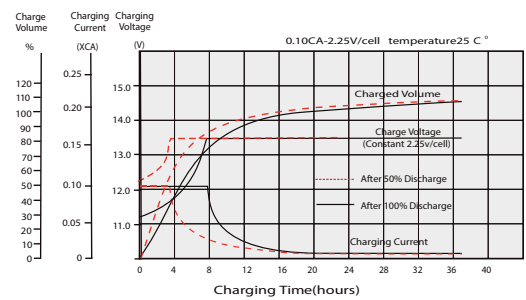
**CONSTANT POWER DISCHARGE (WATTS) AT 25°C**  
**DÉCHARGE À PUISSANCE CONSTANTE (WATTS) À 25°C**

F.V/Temps	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.1	12.7	10.6	9.27	7.49	5.79	4.76	2.92	2.23	1.84	1.57	1.36	1.09	0.905	0.500
1.80V/cell	22.0	15.1	12.2	10.4	8.23	6.27	5.09	3.09	2.33	1.93	1.63	1.41	1.12	0.931	0.503
1.75V/cell	25.7	16.9	13.3	11.2	8.73	6.63	5.33	3.20	2.40	1.97	1.66	1.44	1.14	0.944	0.504
1.70V/cell	28.9	18.4	14.3	12.0	9.12	6.84	5.52	3.31	2.47	2.01	1.69	1.47	1.15	0.954	0.510
1.65V/cell	31.4	19.5	14.9	12.5	9.42	7.06	5.72	3.39	2.52	2.04	1.72	1.49	1.17	0.962	0.515
1.60V/cell	32.5	20.1	15.4	12.7	9.58	7.15	5.80	3.47	2.56	2.08	1.75	1.51	1.18	0.974	0.515

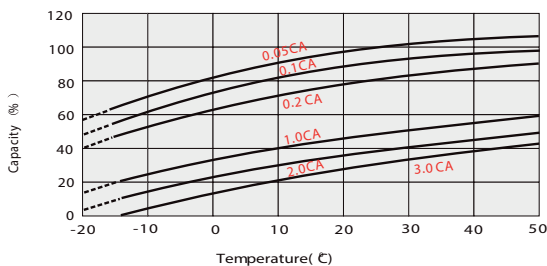
**DISCHARGE CHARACTERISTICS**  
**CARACTÉRISTIQUES DE DÉCHARGE**



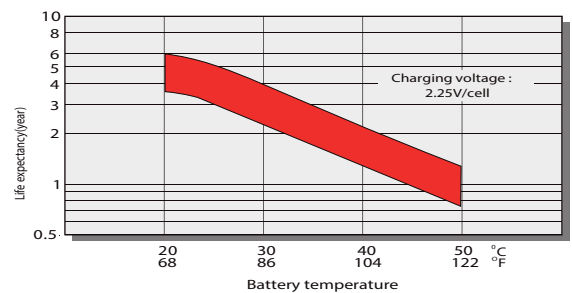
**FLOAT CHARGING CHARACTERISTICS**  
**CARACTÉRISTIQUES DE CHARGE EN FLOATING**



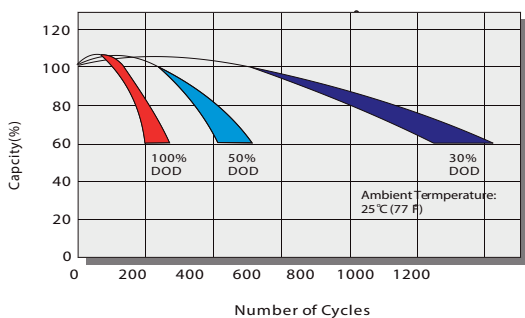
**TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY**  
**EFFET DE LA TEMPÉRATURE SUR LA BATTERIE**



**EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE**  
**EFFET DE LA TEMPÉRATURE SUR LA DURÉE DE VIE EN FLOATING**



**CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE**  
**CYCLE DE VIE EN FONCTION DE LA PROFONDEUR DE LA DÉCHARGE**



**SELF DISCHARGE CHARACTERISTICS**  
**RELATION ENTRE LA CAPACITÉ ET LE TEMPS DE STOCKAGE**

