



# AGM LEAD ACID BATTERY

## 7.8-6 UPS HIGH RATE FR F6.35



### MAIN INFORMATION / INFORMATIONS GÉNÉRALES

<b>BRAND / MARQUE</b>	NX
<b>TECHNOLOGY / TECHNOLOGIE</b>	AGM Lead acid
<b>NOMINAL VOLTAGE / TENSION NOMINALE</b>	6V
<b>NOMINAL CAPACITY / CAPACITÉ NOMINALE</b>	7.8Ah
<b>DIMENSIONS / DIMENSIONS</b>	
• <b>Length / Longueur</b>	151 ± 2mm (5.95 inches)
• <b>Width / Largeur</b>	34 ± 1mm (1.34 inches)
• <b>Height / Hauteur</b>	94 ± 1mm (3.70 inches)
• <b>Total height with terminals / Hauteur totale (avec cosSES)</b>	100 ± 2mm (3.94inches)
<b>WEIGHT ( ± 4 %) / POIDS ( ± 4 %)</b>	Approx 1.28 kg (2.82lbs)
<b>TERMINAL / TYPE DE COSSES</b>	F6.35
<b>CASING / TYPE DE BAC</b>	UL94 V-0
<b>COLOR / COULEUR DE BAC</b>	Grey top and grey case

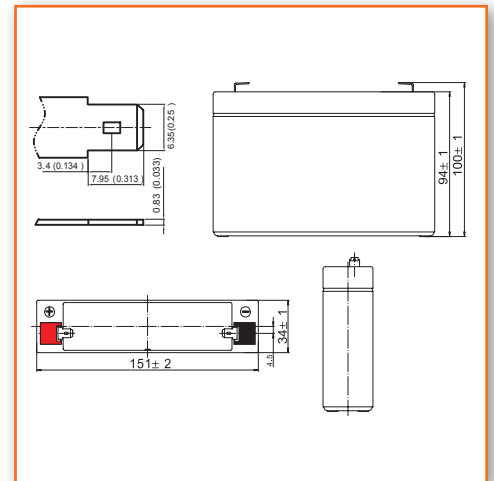


### TECHNICAL INFORMATION / INFORMATIONS TECHNIQUES

<b>CAPACITY / CAPACITÉ</b>	7.80Ah/0.39A (20hr, 1.80V/cell, 25°C/77°F) 7.25Ah/0.725A (10hr, 1.80V/cell, 25°C/77°F) 6.63Ah/1.33A (5hr, 1.75V/cell, 25°C/77°F) 5.96Ah/1.99A (3hr, 1.75V/cell, 25°C/77°F) 4.90Ah/4.90A (1hr, 1.60V/cell, 25°C/77°F)
<b>DISCHARGE CURRENT / COURANT DE DÉCHARGE</b>	177A (5s)
<b>INTERNAL RESISTANCE / RÉSISTANCE INTERNE</b>	Approx 12mΩ
<b>OPERATING TEMPERATURE RANGE / PLAGE 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 (inches)



### APPLICATIONS

**All purpose / Tout usage**

**UPS / Onduleur**

**Electric Power System / Système d'alimentation électrique**

**Emergency backup power supply / Alimentation de secours**

**Emergency lighting / Éclairage de secours**

**Railway signal / Signal ferroviaire**

**Aircraft signal / Signal d'avion**

**Alarm and security system / Système d'alarme et de sécurité**

**Electronic apparatus and equipment / Appareils et équipements électroniques**

**Communication power supply / Alimentation de communication**

**DC power supply / Alimentation en courant continu**

**Auto control system / Système de contrôle automatique**

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



**CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C (77°F)**

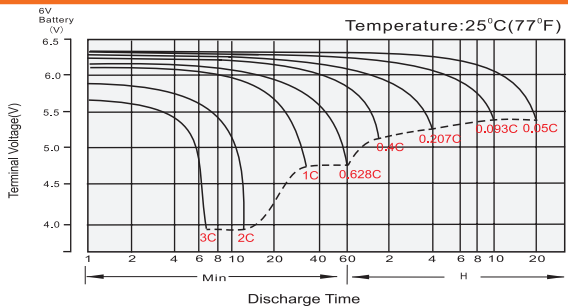
TABLE DE DÉCHARGE À COURANT ET PUISSANCE CONSTANTS (A) À 25°C (77°F)

F.V/Temps	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	14.9	11.4	9.45	8.17	6.32	4.65	3.92	2.32	1.82	1.48	1.20	1.04	0.842	0.704	0.386
1.80V/cell	9.9	14.6	11.4	9.7	7.45	5.41	4.39	2.53	1.95	1.58	1.29	1.12	0.893	0.725	0.390
1.75V/cell	22.5	16.0	12.5	10.4	7.74	5.62	4.60	2.63	1.99	1.61	1.33	1.15	0.909	0.745	0.394
1.70V/cell	24.8	17.5	13.3	10.9	8.05	5.84	4.74	2.69	2.04	1.65	1.36	1.17	0.921	0.760	0.401
1.65V/cell	27.3	18.8	14.2	11.6	8.50	5.99	4.85	2.73	2.13	1.71	1.40	1.20	0.936	0.775	0.406
1.60V/cell	30.1	20.5	15.1	12.4	8.97	6.24	4.90	2.85	2.20	1.76	1.44	1.23	0.945	0.784	0.409

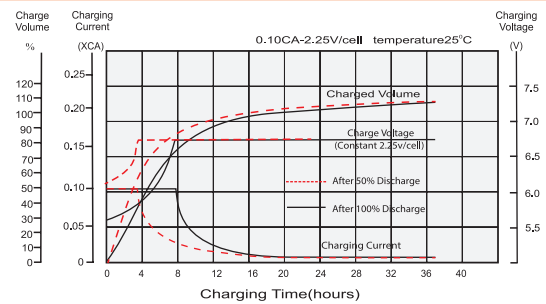
**CONSTANT POWER DISCHARGE (WATTS/CELL) AT 25°C (77°F)**  
**DÉCHARGE À PUISSANCE CONSTANTE (WATTS/CELL) À 25°C (77°F)**

F.V/Temps	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	27.16	21.07	17.63	15.40	12.04	8.94	7.57	4.50	3.54	2.89	2.36	2.05	1.66	1.39	0.765
1.80V/cell	36.07	26.61	21.02	17.94	13.99	10.32	8.43	4.88	3.79	3.06	2.52	2.19	1.76	1.43	0.771
1.75V/cell	39.80	28.77	22.67	19.11	14.40	10.61	8.78	5.05	3.84	3.12	2.58	2.25	1.78	1.47	0.778
1.70V/cell	42.61	30.64	23.87	19.93	14.91	10.99	9.03	5.16	3.94	3.20	2.64	2.29	1.81	1.50	0.792
1.65V/cell	46.32	32.77	25.19	21.02	15.60	11.17	9.17	5.21	4.09	3.30	2.70	2.33	1.83	1.53	0.801
1.60V/cell	49.91	34.76	26.49	22.14	16.35	11.58	9.21	5.40	4.20	3.39	2.78	2.38	1.85	1.54	0.805

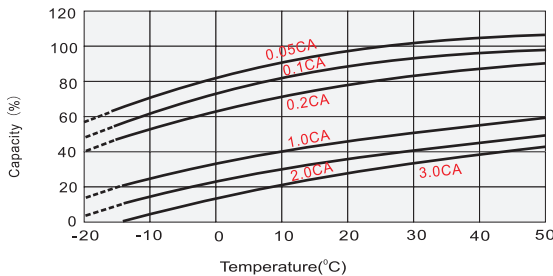
**DISCHARGE CHARACTERISTICS**  
**CARACTÉRISTIQUES DE DÉCHARGE**



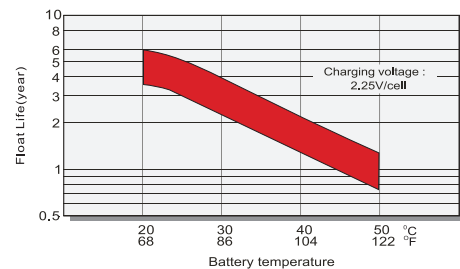
**FLOAT CHARGING CHARACTERISTICS**  
**CARACTÉRISTIQUES DE CHARGE EN FLOATING**



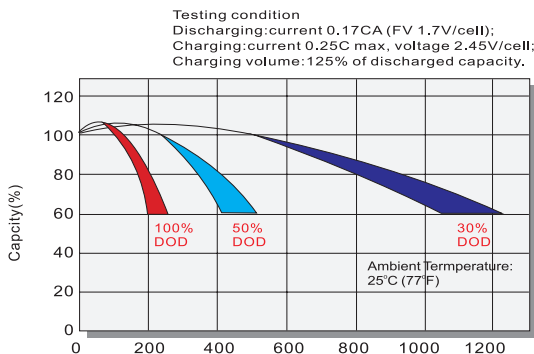
**TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY**  
**EFFET DE LA TEMPÉRATURE SUR LA BATTERIE**



**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 RELATION AVEC LA PROFONDEUR DE DÉCHARGE**



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

