



# AGM LEAD ACID BATTERY

## 20-12 Cyclic M5-F



### 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>	20Ah (20hr)
<b>DIMENSIONS (± 2 mm) / DIMENSIONS (± 2 mm)</b>	
• <b>Length / Longueur</b>	181.5 ± 2mm (7.14 inches)
• <b>Width / Largeur</b>	77 ± 1mm (3.03 inches)
• <b>Height / Hauteur</b>	167.5 ± 2mm (6.59 inches)
• <b>Total height with terminals / Hauteur totale (avec cosSES)</b>	167.5 ± 2mm (6.59 inches)
<b>WEIGHT (± 2 %) / POIDS (± 2 %)</b>	Approx 6kg (13.23lbs)
<b>TERMINAL / TYPE DE COSSES</b>	M5-F
<b>CASING / TYPE DE BAC</b>	UL94 HB (Standard ABS)
<b>COLOR / COULEUR DE BAC</b>	Black top and black case

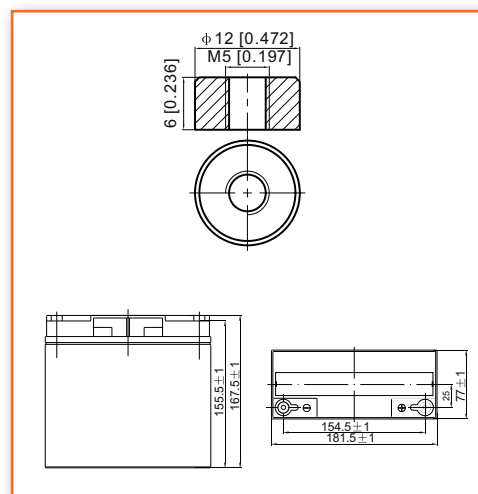


### TECHNICAL INFORMATION / INFORMATIONS TECHNIQUES

<b>CAPACITY / CAPACITÉ</b>	20.7Ah / 0.207A (20hr, 1.80V/cell, 25°C/77°F) 18.9 Ah / 0.945A (10hr, 1.80V/cell, 25°C/77°F) 18.0 Ah / 1.80A (5hr, 1.75V/cell, 25°C/77°F) 16.0Ah / 3.20A (3hr, 1.75V/cell, 25°C/77°F) 11.0 Ah / 11.0A (1hr, 1.60V/cell, 25°C/77°F)
<b>DISCHARGE CURRENT / COURANT DE DÉCHARGE</b>	270A (5S)
<b>INTERNAL RESISTANCE / RÉSISTANCE INTERNE</b>	Approx 15mΩ
<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

**Telecommunications / Télécoms**  
**Green energy system / Systèmes d'énergies renouvelables**  
**Solar stations / Solaire**  
**Emergency light / Eclairage de secours**  
**Trafficlights / Feux électriques**  
**Aircraft signal / Signal d'avion**

**Railway signal / Signalisation ferroviaire**  
**Street Signs / Signalisation routière**  
**Alarm and security system / Alarme et sécurité**  
**Caravans / Caravanes**  
**Camping cars / Camping cars**  
**Boats / Bateaux**

**TMD 1 Description, classe : UN 2800 – accumulateurs inversables remplis d'électrolyte liquide, 8, none, (E)**

**ADR : Not regulated**

**IMDG Not regulated**

**IATA : Exempt**

**Procédure TMD PROC 2 : UN 2800**



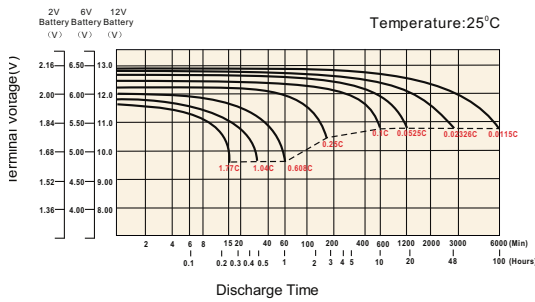
**CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C**  
**TABLE DE DÉCHARGE À COURANT ET PUISSANCE CONSTANTS (A) À 25°C**

F.V/Temps	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	20.6	17.1	13.3	10.5	8.52	5.58	4.19	3.43	2.90	2.03	1.72	0.916	0.412	0.203
1.80V/cell	22.8	18.8	14.3	11.2	8.98	5.94	4.42	3.60	3.05	2.13	1.80	0.945	0.419	0.207
1.75V/cell	25.3	20.6	15.4	12.0	9.69	6.22	4.68	3.76	3.20	2.19	1.84	0.965	0.426	0.209
1.70V/cell	27.7	22.5	16.9	12.5	10.2	6.56	4.89	3.91	3.33	2.27	1.90	0.984	0.431	0.212
1.65V/cell	29.3	23.8	17.9	13.3	10.6	6.79	5.07	4.05	3.40	2.33	1.94	1.007	0.438	0.215
1.60V/cell	32.1	25.8	19.0	13.7	11.0	7.07	5.24	4.18	3.52	2.39	1.98	1.031	0.446	0.217

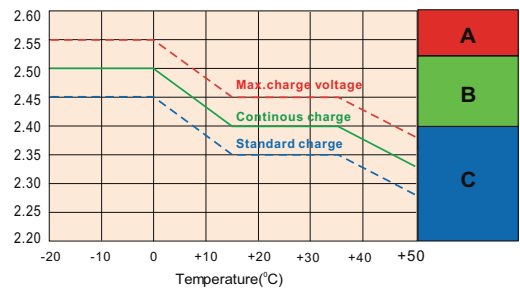
**CONSTANT POWER DISCHARGE (WATTS) AT 25°C**  
**DÉCHARGE À PUISSANCE CONSTANTE (WATTS) À 25°C**

F.V/Temps	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	38.8	32.6	25.6	20.4	16.7	11.0	8.24	6.77	5.74	4.04	3.45	1.83	0.829	0.407
1.80V/cell	42.5	35.3	27.2	21.4	17.4	11.6	8.65	7.06	6.00	4.23	3.59	1.89	0.839	0.416
1.75V/cell	46.5	38.3	29.0	22.8	18.7	12.1	9.12	7.35	6.29	4.34	3.67	1.93	0.851	0.418
1.70V/cell	50.1	41.5	31.7	23.7	19.7	12.7	9.52	7.65	6.53	4.50	3.78	1.96	0.860	0.423
1.65V/cell	52.9	43.7	33.3	25.1	20.3	13.1	9.85	7.90	6.66	4.61	3.86	2.01	0.875	0.429
1.60V/cell	56.8	46.7	35.0	25.7	20.9	13.5	10.1	18.1	16.86	4.72	3.94	2.05	0.889	0.432

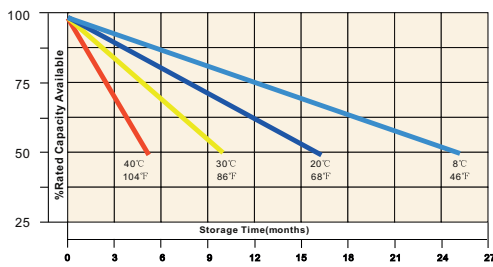
**DISCHARGE CHARACTERISTICS**  
**CARACTÉRISTIQUES DE DÉCHARGE**



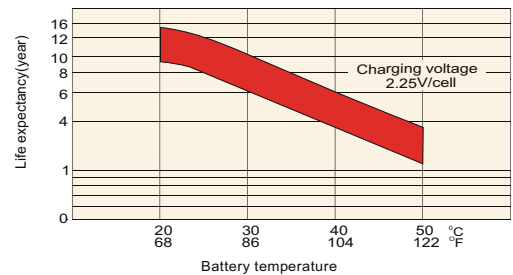
**CYCLIC CHARGING CHARACTERISTICS**  
**CARACTÉRISTIQUES DE CYCLAGE**



**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**

