



AGM LEAD ACID BATTERY

12-12 General Purpose FR F6.35

AGM
 GENERAL
 PURPOSE

MAIN INFORMATION / INFORMATIONS GÉNÉRALES

BRAND / MARQUE	NX
TECHNOLOGY / TECHNOLOGIE	AGM Lead acid
NOMINAL VOLTAGE / TENSION NOMINALE	12V
NOMINAL CAPACITY / CAPACITÉ NOMINALE	12Ah (20hr)
DIMENSIONS (± 2 mm) / DIMENSIONS (± 2 mm)	
• Length / Longueur	151 ± 2mm (5.95 inches)
• Width / Largeur	98 ± 1mm (3.86 inches)
• Height / Hauteur	95 ± 1mm (3.74 inches)
• Total height with terminals / Hauteur totale (avec cosses)	101 ± 2mm (3.98 inches)
WEIGHT (± 2 %) / POIDS (± 2 %)	Approx. 3.40kg (7.49lbs)
TERMINAL / TYPE DE COSSES	F6.35 = FASTON 6.35
CASING / TYPE DE BAC	UL94 V-0 (Flame retardant)
COLOR / COULEUR DE BAC	Black top and black case

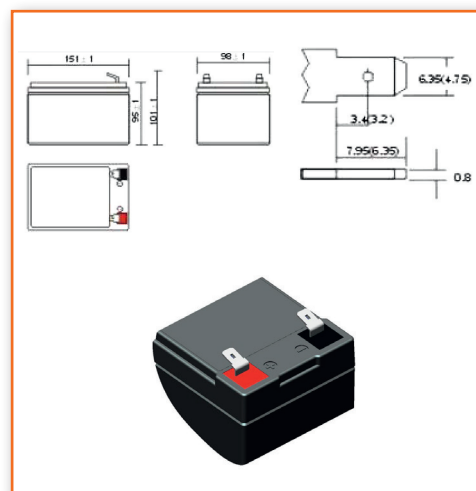


TECHNICAL INFORMATION / INFORMATIONS TECHNIQUES

CAPACITY / CAPACITÉ	12.0 Ah / 0.60A (20hr, 1.80V/cell, 25°C/77°F) 11.2 Ah / 1.12A (10hr, 1.80V/cell, 25°C/77°F) 10.2 Ah / 2.04A (5hr, 1.75V/cell, 25°C/77°F) 9.2 Ah / 3.06A (3hr, 1.75V/cell, 25°C/77°F) 7.54 Ah / 7.54A (1hr, 1.60V/cell, 25°C/77°F)
DISCHARGE CURRENT / COURANT DE DÉCHARGE	180A (5S)
INTERNAL RESISTANCE / RÉSISTANCE INTERNE	Approx 14mΩ
OPERATING TEMPERATURE RANGE / PLAGE DE TEMPÉRATURE	
• Discharging / Décharge	-15°~50°C (5 ~122°F)
• Charging / Charge	0°~40°C (32 ~104°F)
• Storage / Stockage	-15°~40°C (5 ~104°F)
NOMINAL OPERATING TEMPERATURE / TEMPÉRATURE D'UTILISATION	25 ± 3°C (77 ± 5°F)
CAPACITY VS TEMPERATURE / CAPACITÉ SELON LA TEMPÉRATURE	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

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	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	22.9	17.5	14.5	12.6	9.72	7.16	6.03	3.57	2.79	2.27	1.85	1.61	1.30	1.08	0.594
1.80V/cell	30.7	22.4	17.6	14.9	11.5	8.33	6.76	3.90	3.00	2.42	1.99	1.72	1.37	1.12	0.600
1.75V/cell	34.6	24.6	19.2	16.0	11.9	8.64	7.07	4.04	3.06	2.48	2.04	1.77	1.40	1.15	0.606
1.70V/cell	38.1	26.9	20.5	16.8	12.4	8.99	7.29	4.14	3.15	2.54	2.09	1.81	1.42	1.17	0.617
1.65V/cell	42.0	29.0	21.8	17.8	13.1	9.21	7.46	4.20	3.28	2.63	2.15	1.85	1.44	1.19	0.625
1.60V/cell	46.3	31.5	23.3	19.0	13.8	9.60	7.54	4.38	3.38	2.71	2.22	1.89	1.45	1.21	0.629

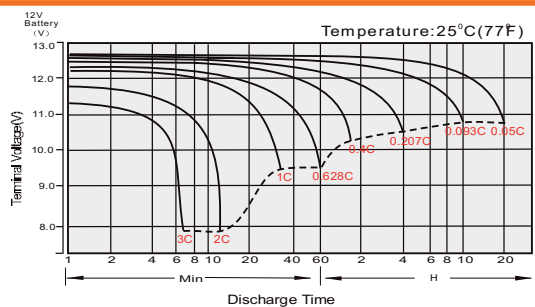
CONSTANT POWER DISCHARGE (WATTS) AT 25°C

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	41.8	32.4	27.1	23.7	18.5	13.8	11.6	6.93	5.44	4.44	3.63	3.16	2.56	2.14	1.18
1.80V/cell	55.5	40.9	32.3	27.6	21.5	15.9	13.0	7.51	5.82	4.71	3.88	3.37	2.71	2.21	1.19
1.75V/cell	61.2	44.3	34.9	29.4	22.2	16.3	13.5	7.76	5.91	4.80	3.97	3.46	2.75	2.26	1.20
1.70V/cell	65.6	47.1	36.7	30.7	22.9	16.9	13.9	7.94	6.06	4.92	4.06	3.52	2.78	2.31	1.22
1.65V/cell	71.3	50.4	38.7	32.3	24.0	17.2	14.1	8.01	6.29	5.07	4.16	3.59	2.82	2.35	1.23
1.60V/cell	76.8	53.5	40.8	34.1	25.2	17.8	14.2	8.31	6.45	5.21	4.28	3.65	2.48	2.37	1.24

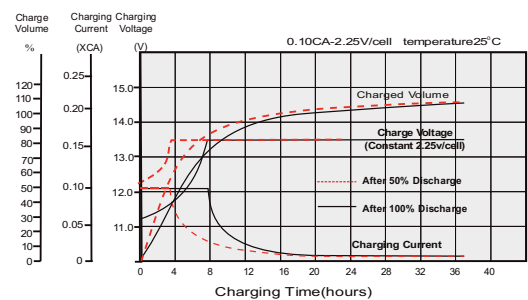
DISCHARGE CHARACTERISTICS

CARACTÉRISTIQUES DE DÉCHARGE



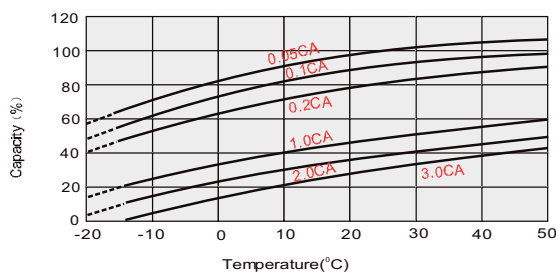
FLOAT CHARGING CHARACTERISTICS

CARACTÉRISTIQUES DE CHARGE EN FLOATING



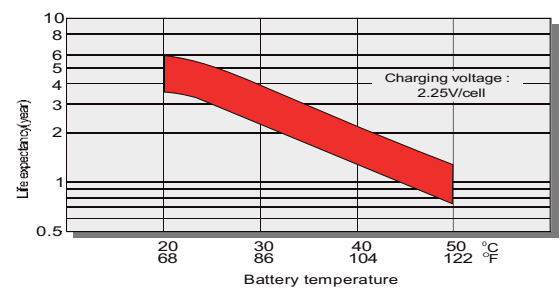
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY

EFFET DE LA TEMPÉRATURE SUR LA BATTERIE



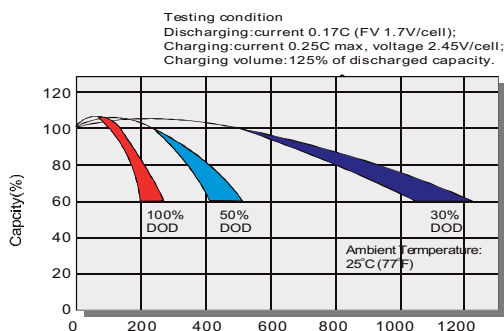
EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE

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

