



AGM LEAD ACID BATTERY

S 12V-4.5Ah FR

AGM
STANDARD

MAIN INFORMATION / INFORMATIONS GÉNÉRALES

| | |
|---|----------------------------|
| BRAND / MARQUE | NX |
| TECHNOLOGY / TECHNOLOGIE | AGM Lead acid |
| NOMINAL VOLTAGE / TENSION NOMINALE | 12V |
| NOMINAL CAPACITY / CAPACITÉ NOMINALE | 4.5Ah (20hr) |
| DIMENSIONS (± 2 mm) / DIMENSIONS (± 2 mm) | |
| • Length / Longueur | 90 ± 2mm (7.14 inches) |
| • Width / Largeur | 70 ± 1mm (3.03 inches) |
| • Height / Hauteur | 101 ± 2mm (6.59 inches) |
| • Total height with terminals / Hauteur totale (avec cosses) | 107 ± 2mm (6.59 inches) |
| WEIGHT (± 2 %) / POIDS (± 2 %) | Approx. 1.45kg (3.20lbs) |
| TERMINAL / TYPE DE COSSES | T1 |
| CASING / TYPE DE BAC | UL94 V-0 (Flame retardant) |
| COLOR / COULEUR DE BAC | Black top and black case |

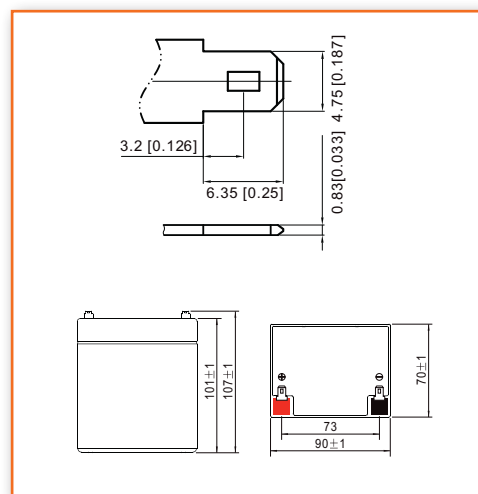


TECHNICAL INFORMATION / INFORMATIONS TECHNIQUES

| | |
|--|--|
| CAPACITY / CAPACITÉ | 4.50Ah / 0.225A (20hr, 1.80V/cell, 25°C/77°F) 4.19 Ah / 0.419A (10hr, 1.80V/cell, 25°C/77°F) 3.78 Ah / 0.756A (5hr, 1.75V/cell, 25°C/77°F) 3.30Ah / 1.10A (3hr, 1.75V/cell, 25°C/77°F) 2.73Ah / 2.73A (1hr, 1.60V/cell, 25°C/77°F) |
| DISCHARGE CURRENT / COURANT DE DÉCHARGE | 67.5A (5S) |
| INTERNAL RESISTANCE / RÉSISTANCE INTERNE | Approx 40mΩ |
| OPERATING TEMPERATURE RANGE / PLAGES 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% |

T1 / 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 / Alerte 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



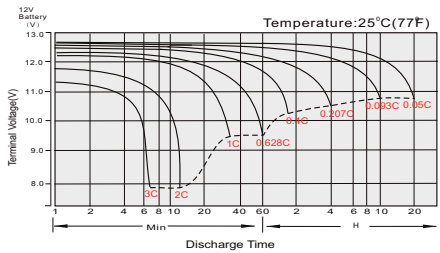
CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C
TABLE DE DÉCHARGE À COURANT ET PUISSANCE CONSTANTS (A) À 25°C

| F.V/Temps | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1.85V/cell | 8.64 | 6.02 | 4.97 | 4.31 | 3.46 | 2.66 | 2.17 | 1.33 | 1.01 | 0.831 | 0.706 | 0.611 | 0.486 | 0.404 | 0.223 |
| 1.80V/cell | 10.6 | 7.19 | 5.76 | 4.87 | 3.83 | 2.90 | 2.34 | 1.41 | 1.06 | 0.874 | 0.736 | 0.638 | 0.504 | 0.419 | 0.225 |
| 1.75V/cell | 12.6 | 8.13 | 6.35 | 5.31 | 4.09 | 3.08 | 2.46 | 1.47 | 1.10 | 0.901 | 0.756 | 0.654 | 0.518 | 0.427 | 0.227 |
| 1.70V/cell | 14.3 | 8.96 | 6.88 | 5.70 | 4.29 | 3.20 | 2.57 | 1.53 | 1.14 | 0.924 | 0.775 | 0.670 | 0.525 | 0.434 | 0.231 |
| 1.65V/cell | 15.7 | 9.64 | 7.27 | 5.98 | 4.47 | 3.32 | 2.67 | 1.58 | 1.17 | 0.943 | 0.792 | 0.683 | 0.534 | 0.440 | 0.234 |
| 1.60V/cell | 16.5 | 10.0 | 7.58 | 6.17 | 4.60 | 3.40 | 2.73 | 1.63 | 1.19 | 0.966 | 0.808 | 0.696 | 0.545 | 0.447 | 0.236 |

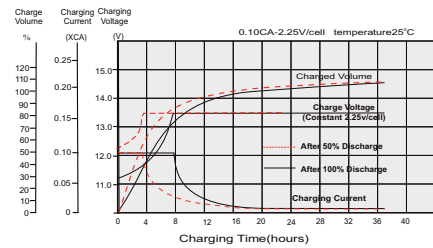
CONSTANT POWER DISCHARGE (WATTS) AT 25°C
DÉCHARGE À PUISSANCE CONSTANTE (WATTS) À 25°C

| F.V/Temps | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|
| 1.85V/cell | 16.3 | 11.5 | 9.55 | 8.35 | 6.74 | 5.21 | 4.28 | 2.63 | 2.01 | 1.66 | 1.41 | 1.23 | 0.977 | 0.815 | 0.450 |
| 1.80V/cell | 19.8 | 13.6 | 11.0 | 9.37 | 7.41 | 5.65 | 4.58 | 2.78 | 2.10 | 1.73 | 1.46 | 1.27 | 1.01 | 0.838 | 0.452 |
| 1.75V/cell | 23.2 | 15.2 | 12.0 | 10.1 | 7.86 | 5.96 | 4.80 | 2.88 | 2.16 | 1.78 | 1.49 | 1.30 | 1.03 | 0.849 | 0.453 |
| 1.70V/cell | 26.0 | 16.6 | 12.9 | 10.8 | 8.20 | 6.16 | 4.97 | 2.98 | 2.22 | 1.81 | 1.52 | 1.32 | 1.04 | 0.858 | 0.459 |
| 1.65V/cell | 28.3 | 17.6 | 13.4 | 11.2 | 8.48 | 6.36 | 5.15 | 3.05 | 2.27 | 1.84 | 1.55 | 1.34 | 1.05 | 0.866 | 0.463 |
| 1.60V/cell | 29.2 | 18.1 | 13.9 | 11.4 | 8.62 | 6.44 | 5.22 | 3.13 | 2.31 | 1.87 | 1.57 | 1.36 | 1.07 | 0.876 | 0.464 |

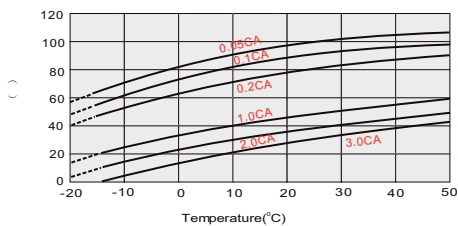
DISCHARGE CHARACTERISTICS
CARACTÉRISTIQUES DE DÉCHARGE



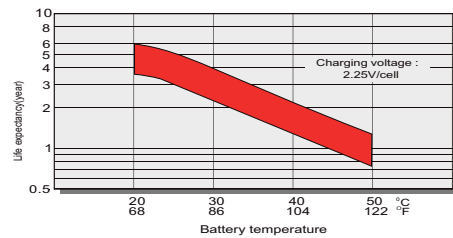
FLOAT CHARGING CHARACTERISTICS
CARACTÉRISTIQUES DE CHARGE EN FLOATING



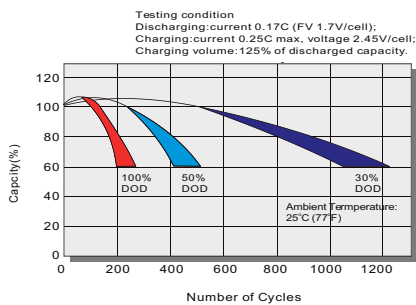
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY
EFFET DE LA TEMPÉRATURE SUR LA BATTERIE



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

