

Sealed Lead Acid Rechargeable Battery Product Specification

SLAUMXNP110-12 (12V110AH)

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

| | | |
|--------------|-------------------|----------------|
| 10 hour rate | (11A to 10.80V) | 110Ah |
| 5 hour rate | (18.7A to 10.20V) | 93.5Ah |
| 1 hour rate | (66A to 9.60V) | 66Ah |
| 1 C | (110A to 9.60V) | 69.67Ah |

Weight Approx. 32.5kg (71.5Lbs.)

Internal Resistance (at 1KHz) Approx. 5 mΩ

Maximum Discharge Current for 5 seconds: **1200A**

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mv/°C/cell

Maximum Charging Current : **33A**

Standby use:

Float Charging Voltage **13.50 to 13.80V**

Coefficient -3.0mv/°C/cell

Design Life **12 years**

Operating Temperature Range

Charge **-15°C (5°F) to 40°C (104°F)**

) Discharge **-15°C (5°F) to 50°C (122°F)**

°F) Storage **-15°C (5°F) to 40°C (104°F)**

Charge Retention (shelf life) at 20°C (68°F)

1 month **98%**

3 month **94%**

6 month **85%**

Case Material **ABS**

(Option: UL94 HB & UL94 V-0 flame retardant)

Terminal **F8**

Description of torque value of hard ware for the terminals:

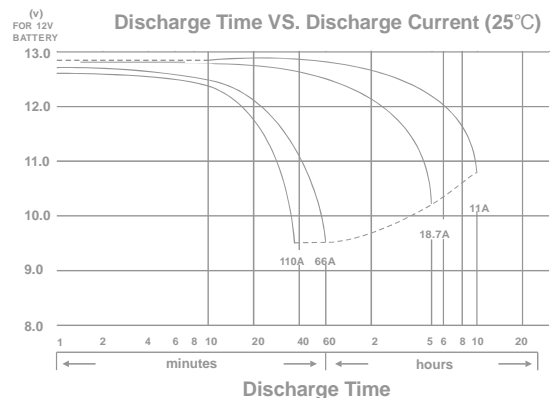
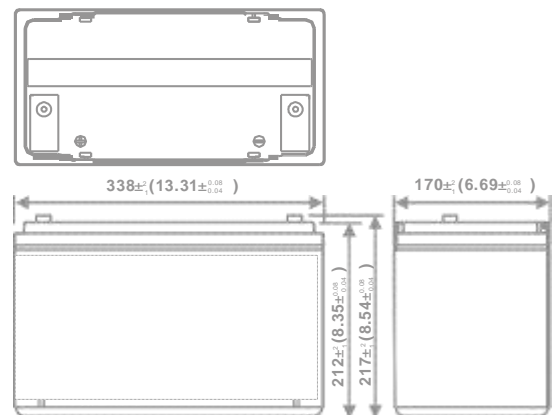
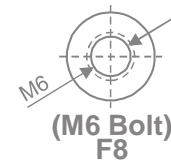
Recommended torque value **M6: 5.39 N-m (55kg-cm)**

Maximum allowable torque value **M6: 8.82 N-m (90kg-cm)**

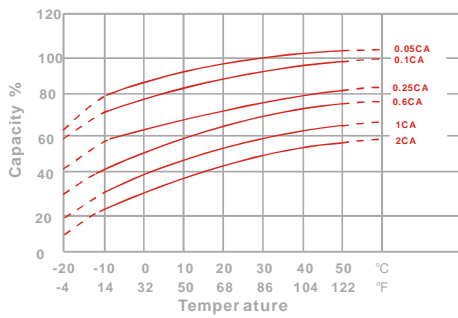


Dimensions

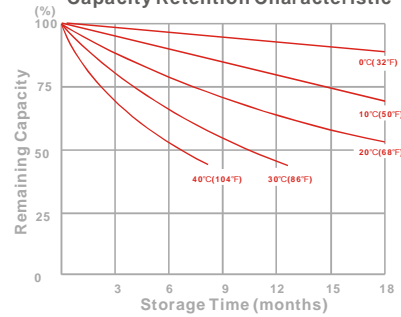
mm(inch)



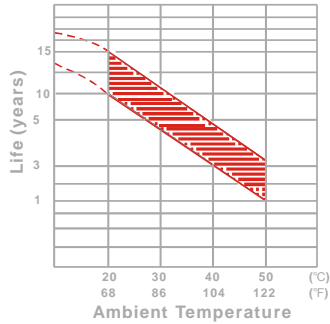
Effect of Temperature on Capacity 25°C(77°F)



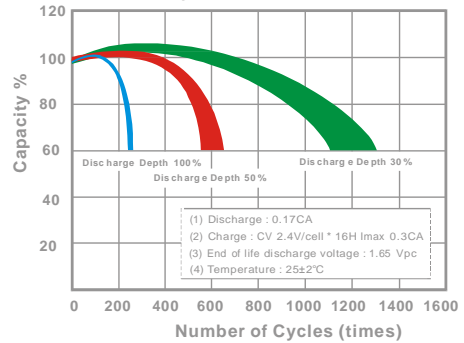
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

| Time | End Voltage | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 5 | min | 2880 | 3202 | 3423 | 3634 | 3731 | 3833 | 4025 |
| 10 | min | 2145 | 2339 | 2498 | 2650 | 2715 | 2789 | 2920 |
| 15 | min | 1757 | 1904 | 2016 | 2124 | 2168 | 2229 | 2314 |
| 30 | min | 1075 | 1139 | 1193 | 1243 | 1265 | 1291 | 1332 |
| 60 | min | 711 | 738 | 756 | 773 | 780 | 789 | 800 |
| 120 | min | 414 | 435 | 450 | 459 | 465 | 472 | 481 |
| 180 | min | 301 | 317 | 328 | 339 | 343 | 348 | 355 |
| 240 | min | 240 | 253 | 265 | 277 | 281 | 286 | 292 |
| 300 | min | 211 | 225 | 235 | 240 | 243 | 245 | 249 |
| 600 | min | 136 | 139 | 141 | 144 | 145 | 146 | 148 |
| 1200 | min | 70.3 | 72.2 | 74.2 | 75.5 | 76.0 | 76.6 | 77.4 |

- Discharge Rates in Amperes to Various End Voltages at 25°C(77°F)

| Time | End Voltage | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 5 | min | 214 | 279 | 317 | 348 | 358 | 370 | 387 |
| 10 | min | 167 | 196 | 217 | 234 | 242 | 251 | 265 |
| 15 | min | 124 | 151 | 170 | 184 | 189 | 195 | 203 |
| 30 | min | 74.3 | 86.7 | 95.1 | 104 | 106 | 109 | 114 |
| 60 | min | 44.4 | 52.6 | 58.3 | 62.4 | 63.3 | 64.8 | 66.7 |
| 120 | min | 25.1 | 29.2 | 32.4 | 35.5 | 36.3 | 37.2 | 38.4 |
| 180 | min | 21.5 | 23.9 | 25.7 | 27.2 | 27.7 | 28.3 | 29.1 |
| 240 | min | 18.5 | 20.3 | 21.6 | 22.5 | 22.8 | 23.2 | 23.7 |
| 300 | min | 16.8 | 18.0 | 18.9 | 19.4 | 19.6 | 19.8 | 20.1 |
| 600 | min | 10.7 | 11.0 | 11.2 | 11.4 | 11.5 | 11.6 | 11.8 |
| 1200 | min | 5.45 | 5.62 | 5.79 | 5.91 | 5.96 | 6.02 | 6.09 |

All data on the spec. sheet is an average value:

The tolerance range : X<6min(+15%~-15%), 6min≤X<10min(+12%~-12%), 10min ≤X < 60min(+8%~-8%), X≥60min(+5%~-5%)