

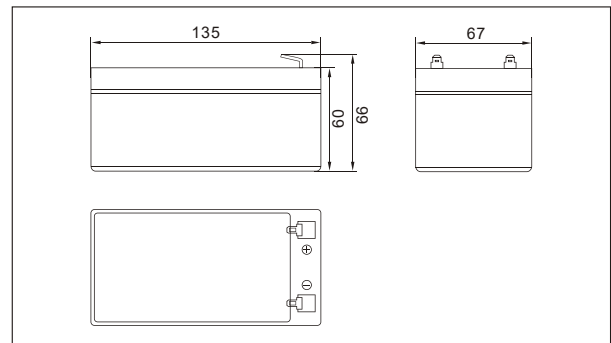
# ULTRA MAX®

## Sealed Lead Acid Rechargeable Battery Product Specification

### SLAUMXNP3.3-12 (12V3.3AH)



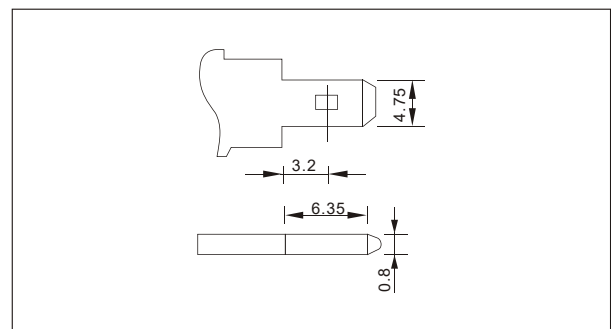
#### Outer dimensions (mm)



#### Specifications

|                               |              |                      |
|-------------------------------|--------------|----------------------|
| Nominal Voltage               |              | 12V                  |
| Rated capacity (20 hour rate) |              | 3.3 Ah               |
| Dimensions                    | Total Height | 66 mm (2.60 inches)  |
|                               | Height       | 60 mm (2.36 inches)  |
|                               | Length       | 135 mm (5.32 inches) |
|                               | Width        | 67 mm (2.64 inches)  |
| Weight Approx                 |              | 1.24 Kg (2.73 lbs)   |

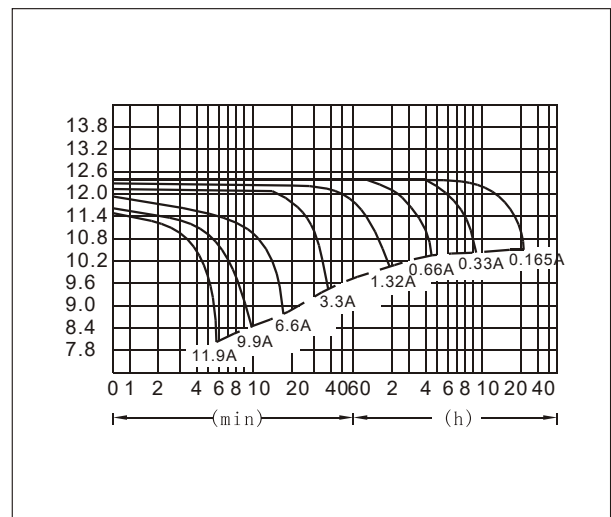
#### Terminal Type (mm)



#### Characteristics

|   |                                    |   |
|---|------------------------------------|---|
| Capacity<br>25°C(77°F)                                  | 20 hour rate(0.17A)                | 3.30 AH   |
|   | 10 hour rate(0.30A)                | 3.04AH  |
|   | 5 hour rate(0.56A)                 | 2.81AH  |
|   | 1 hour rate(1.98A)                 | 1.98AH  |
|   | 1.5 hour discharge to 10.5V        | 1.32 A  |
| Internal Resistance                                     | Full charged Battery at 25°C(77°F) | 50 mΩ   |
| Capacity<br>affected<br>by Temperature<br>(20hour rate) | 40°C(104°F)                        | 102%  |
|   | 25°C(77°F)                         | 100%  |
|   | 0°C(32°F)                          | 85%   |
|   | -15°C(5°F)                         | 65%   |
|   | Self-Discharge<br>at 25°C(77°F)    | Capacity after 3 month storage                                    |
|   | Capacity after 6 month storage     | 82%   |
|   | Capacity after 12 month storage    | 64%   |
| Terminal  | T1                                 |   |
| Charge<br>(constant<br>Voltage)                         | Cycle                              | Initial Charging Current less than 1.32 A<br>Voltage 14.40-14.70V |
|   | Float                              | Voltage 13.50-13.80V  |

#### Discharge Curves 25 °C(77 °F)



| Time   | 5min | 10min | 15min | 30min | 1h   | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |      |
|--------|------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 9.60V  | A    | 11.9  | 7.79  | 5.78  | 3.80 | 1.98 | 1.16 | 0.85 | 0.68 | 0.58 | 0.38 | 0.31 | 0.17 |
|        | W    | 140.1 | 88.0  | 66.6  | 40.3 | 22.8 | 13.4 | 9.83 | 7.89 | 6.70 | 4.41 | 3.62 | 1.98 |
| 10.20V | A    | 10.9  | 7.45  | 5.31  | 3.60 | 1.86 | 1.11 | 0.83 | 0.66 | 0.57 | 0.38 | 0.31 | 0.17 |
|        | W    | 131.9 | 83.3  | 62.6  | 40.0 | 21.5 | 12.8 | 9.56 | 7.65 | 6.57 | 4.35 | 3.55 | 1.92 |
| 10.50V | A    | 9.91  | 6.96  | 4.95  | 3.49 | 1.80 | 1.09 | 0.81 | 0.63 | 0.57 | 0.37 | 0.30 | 0.17 |
|        | W    | 127.3 | 80.9  | 59.8  | 39.6 | 20.8 | 12.6 | 9.39 | 7.26 | 6.53 | 4.30 | 3.52 | 1.91 |
| 10.80V | A    | 9.53  | 6.66  | 4.62  | 3.40 | 1.74 | 1.06 | 0.80 | 0.62 | 0.54 | 0.36 | 0.30 | 0.16 |
|        | W    | 111.6 | 78.4  | 57.6  | 39.5 | 20.2 | 12.3 | 9.28 | 7.17 | 6.24 | 4.13 | 3.44 | 1.87 |
| 11.10V | A    | 8.81  | 6.27  | 4.29  | 3.30 | 1.68 | 1.03 | 0.76 | 0.60 | 0.51 | 0.35 | 0.29 | 0.16 |
|        | W    | 107.9 | 75.8  | 54.9  | 39.2 | 19.9 | 12.2 | 9.01 | 7.15 | 6.11 | 3.39 | 3.37 | 1.86 |