

General Features

- Positive and negative plates in lead-calcium tin alloy.
- Superior energy density
- Operates at a low internal pressure.
- Gas Recombination.
- Usable in any orientation.
- A recognized component of UL.
- Very high power output.
- Application specific designs.
- Six months shelf life at 20°C.
- Design life 5 years.

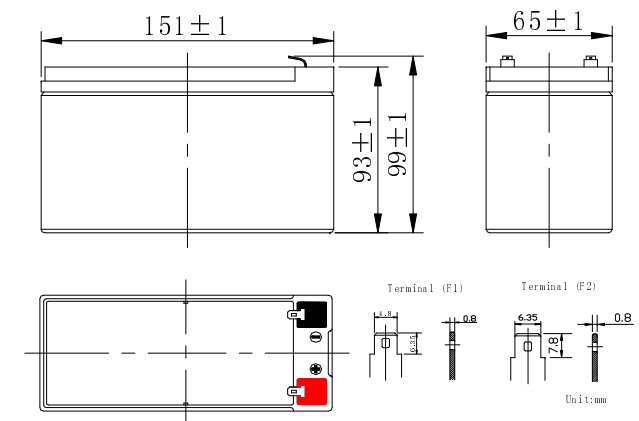


Dimensions

| | Length | Width | Height | Total Height | Approx.Weight |
|----------------------|----------|----------|----------|--------------|---------------|
| <i>SI Units</i> | 151mm | 65mm | 93mm | 99mm | 2.45Kg |
| <i>English Units</i> | 5.94inch | 2.56inch | 3.66inch | 3.90inch | 5.40lbs |

Performance Characteristics

- Nominal Voltage: 12V
- Number of cell: 6
- Nominal Capacity 77° F(25°C): 15 min Wattage @1.67V 33W/cell
- Nominal Capacity 77° F(25°C): 20 hour rate (0.4A, 10.8V) 8Ah
- Internal Resistance: Fully Charged battery 68° F(20°C) 18.5mΩ
- Self-Discharge: 3% of capacity declined per month at 20°C
- Operating Temperature Range: Discharge -20~60°C Charge -10~60°C Storage -20~60°C
- Max. Discharge Current 68° F(20°C): 120A (5S)
- Short Circuit Current: 600A
- Charge Methods: Constant Voltage Charge 68° F(20°C)
 - Cycle use: 14.5 ~ 14.9V Maximum charging current 2A
 - Standby use: 13.6 ~ 13.8V





UNH12-33W (UN8-12H)

Rechargeable Products Sealed Lead Acid Battery

Discharge Data

Constant Current Discharge Data(Amperes at 25°C)

| End Voltage Per cell/V | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 1h | 1.5h | 2h | 2.5h | 3h | 4h | 5h | 6h | 7h | 8h | 9h | 10h | 20h |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.60 | 25.8 | 18.8 | 14.5 | 12.1 | 10.2 | 9.00 | 8.05 | 7.35 | 6.75 | 6.25 | 5.80 | 3.98 | 3.17 | 2.65 | 2.31 | 1.85 | 1.57 | 1.32 | 1.15 | 1.00 | 0.89 | 0.81 | 0.43 |
| 1.65 | 24.5 | 17.9 | 13.7 | 11.6 | 9.75 | 8.65 | 7.75 | 7.10 | 6.55 | 6.10 | 5.68 | 3.88 | 3.08 | 2.57 | 2.23 | 1.79 | 1.52 | 1.27 | 1.11 | 0.97 | 0.87 | 0.80 | 0.42 |
| 1.70 | 23.2 | 16.9 | 12.9 | 11.0 | 9.25 | 8.25 | 7.46 | 6.85 | 6.35 | 5.95 | 5.55 | 3.77 | 2.98 | 2.48 | 2.15 | 1.72 | 1.46 | 1.22 | 1.07 | 0.94 | 0.85 | 0.79 | 0.42 |
| 1.75 | 21.9 | 15.9 | 12.1 | 10.4 | 8.75 | 7.85 | 7.16 | 6.60 | 6.15 | 5.80 | 5.41 | 3.66 | 2.88 | 2.39 | 2.07 | 1.65 | 1.40 | 1.17 | 1.03 | 0.91 | 0.83 | 0.78 | 0.41 |
| 1.80 | 20.4 | 14.9 | 11.1 | 9.80 | 8.20 | 7.40 | 6.85 | 6.30 | 5.90 | 5.60 | 5.35 | 3.54 | 2.76 | 2.29 | 1.99 | 1.57 | 1.33 | 1.11 | 0.98 | 0.87 | 0.80 | 0.77 | 0.40 |

Constant Power Discharge Data(Watts per cell at 25°C)

| End Voltage Per cell/V | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 1h | 1.5h | 2h | 2.5h | 3h | 4h | 5h | 6h | 7h | 8h | 9h | 10h | 12h |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.60 | 47.0 | 35.8 | 27.8 | 23.2 | 20.8 | 18.5 | 16.7 | 15.5 | 14.5 | 13.2 | 12.0 | 8.50 | 6.25 | 5.10 | 4.45 | 3.39 | 2.85 | 2.43 | 2.12 | 1.90 | 1.70 | 1.57 | 1.34 |
| 1.65 | 44.5 | 33.8 | 26.2 | 22.9 | 19.6 | 17.7 | 15.9 | 14.8 | 13.9 | 12.7 | 11.7 | 8.15 | 6.00 | 4.95 | 4.30 | 3.30 | 2.78 | 2.37 | 2.07 | 1.86 | 1.67 | 1.55 | 1.32 |
| 1.67 | 43.5 | 33.0 | 25.5 | 22.3 | 19.0 | 17.3 | 15.6 | 14.5 | 13.6 | 12.5 | 11.5 | 8.00 | 5.88 | 4.87 | 4.23 | 3.26 | 2.75 | 2.34 | 2.05 | 1.84 | 1.65 | 1.54 | 1.31 |
| 1.70 | 42.0 | 32.8 | 24.5 | 21.4 | 18.4 | 16.7 | 15.0 | 14.0 | 13.2 | 12.1 | 11.2 | 7.75 | 5.70 | 4.75 | 4.15 | 3.20 | 2.70 | 2.30 | 2.01 | 1.81 | 1.63 | 1.52 | 1.30 |
| 1.75 | 39.5 | 30.8 | 22.8 | 19.9 | 17.2 | 15.7 | 14.1 | 13.2 | 12.5 | 11.5 | 10.7 | 7.35 | 5.40 | 4.55 | 4.00 | 3.10 | 2.62 | 2.23 | 1.95 | 1.76 | 1.59 | 1.49 | 1.28 |
| 1.80 | 37.0 | 28.6 | 21.0 | 18.4 | 16.0 | 14.5 | 13.1 | 12.4 | 11.7 | 10.8 | 10.1 | 6.90 | 5.05 | 4.30 | 3.82 | 2.99 | 2.53 | 2.15 | 1.88 | 1.70 | 1.54 | 1.45 | 1.25 |

