

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 10 years.

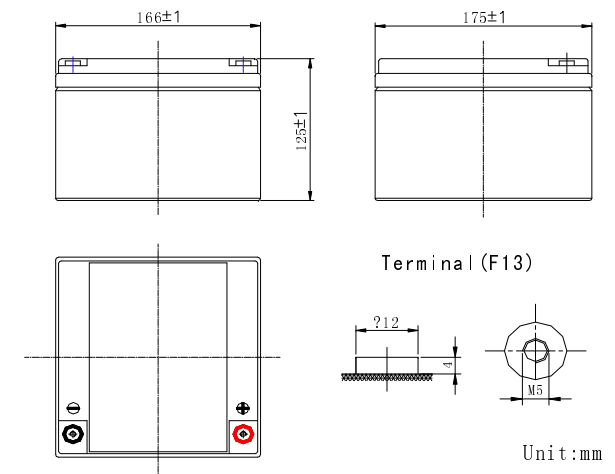


Dimensions

| | Length | Width | Height | Total Height | Approx.Weight |
|----------------------|----------|----------|----------|--------------|---------------|
| <i>SI Units</i> | 166mm | 175mm | 125mm | 125mm | 8.6Kg |
| <i>English Units</i> | 6.54inch | 6.89inch | 4.92inch | 4.92inch | 19.0lbs |

Performance Characteristics

- Nominal Voltage: 12V
- Number of cell: 6
- Nominal Capacity 77° F(25°C): 15 min Wattage @1.67V 100W/cell
- Nominal Capacity 77° F(25°C): 10 hour rate (2.6A, 10.8V) 26Ah
- Internal Resistance: Fully Charged battery 68° F(20°C) 9mΩ
- 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): 390A (5S)
- Short Circuit Current: 750A
- Charge Methods: Constant Voltage Charge 68° F(20°C)
 - Cycle use: 14.5 ~ 14.9V Maximum charging current 7A
 - Standby use: 13.6 ~ 13.8V





UNH12-100W

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 | 75.5 | 57.0 | 45.0 | 38.0 | 33.1 | 29.4 | 26.8 | 24.5 | 22.5 | 20.6 | 19.1 | 13.2 | 10.4 | 8.75 | 8.00 | 6.25 | 5.20 | 4.40 | 3.85 | 3.30 | 3.10 | 2.85 | 1.55 |
| 1.65 | 73.0 | 55.0 | 43.5 | 36.8 | 32.1 | 28.5 | 25.9 | 23.8 | 21.8 | 20.1 | 18.6 | 12.9 | 10.2 | 8.65 | 7.80 | 6.10 | 5.05 | 4.30 | 3.75 | 3.25 | 3.05 | 2.80 | 1.50 |
| 1.70 | 70.0 | 53.0 | 42.0 | 35.5 | 31.0 | 27.5 | 25.0 | 23.0 | 21.1 | 19.5 | 18.1 | 12.5 | 10.0 | 8.50 | 7.60 | 5.90 | 4.90 | 4.15 | 3.60 | 3.15 | 2.95 | 2.75 | 1.50 |
| 1.75 | 67.0 | 51.0 | 40.5 | 34.2 | 29.9 | 26.5 | 24.1 | 22.2 | 20.4 | 18.9 | 17.6 | 12.1 | 9.80 | 8.35 | 7.40 | 5.70 | 4.75 | 4.00 | 3.45 | 3.05 | 2.85 | 2.70 | 1.45 |
| 1.80 | 63.5 | 48.5 | 38.5 | 32.7 | 28.6 | 25.4 | 23.1 | 21.3 | 19.6 | 18.2 | 16.9 | 11.7 | 9.30 | 8.15 | 7.15 | 5.45 | 4.55 | 3.80 | 3.30 | 2.95 | 2.75 | 2.60 | 1.40 |

| 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 | 134.0 | 105.0 | 83.0 | 70.0 | 61.5 | 54.5 | 48.5 | 45.0 | 40.8 | 37.5 | 35.0 | 25.1 | 20.8 | 16.6 | 12.8 | 11.1 | 9.50 | 8.25 | 6.95 | 6.00 | 5.35 | 4.80 | 4.10 |
| 1.65 | 130.0 | 101.5 | 80.5 | 67.5 | 60.0 | 52.8 | 47.1 | 43.6 | 39.6 | 36.5 | 34.0 | 24.4 | 20.3 | 16.3 | 13.6 | 10.9 | 9.30 | 8.10 | 6.80 | 5.90 | 5.25 | 4.70 | 4.05 |
| 1.67 | 128.0 | 100.0 | 79.5 | 66.5 | 59.2 | 52.1 | 46.5 | 43.1 | 39.1 | 36.1 | 33.6 | 24.1 | 20.1 | 16.2 | 13.5 | 10.8 | 9.20 | 8.03 | 6.72 | 5.84 | 5.20 | 4.67 | 4.00 |
| 1.70 | 125.0 | 97.5 | 77.5 | 65.0 | 58.0 | 51.0 | 45.5 | 42.2 | 38.3 | 35.4 | 33.0 | 23.6 | 19.7 | 16.0 | 13.3 | 10.6 | 9.05 | 7.90 | 6.60 | 5.75 | 5.10 | 4.60 | 3.95 |
| 1.75 | 120.0 | 93.5 | 74.5 | 62.5 | 56.0 | 49.2 | 43.9 | 40.8 | 37.0 | 34.3 | 32.0 | 22.8 | 19.1 | 15.7 | 13.0 | 10.3 | 8.80 | 7.70 | 6.40 | 5.60 | 4.95 | 4.50 | 3.90 |
| 1.80 | 114.0 | 89.0 | 71.0 | 59.5 | 53.5 | 47.0 | 42.0 | 39.2 | 35.5 | 33.0 | 30.8 | 21.8 | 18.4 | 15.2 | 12.6 | 10.0 | 8.50 | 7.45 | 6.10 | 5.40 | 4.75 | 4.35 | 3.80 |

