

Engineering Data Sheet: 5000 Battery

Unit Information

Model #: 5000

Master Pack Dimensions

Weight: 3.1 lbs. (dry), 4 lbs. (wet)
 Cube: 0.80 ft³ (.02 m³)
 Cube Dimensions: 11.75" x 12" x 9.75"
 Quantity: 10

Specifications

Power: 4V Lead-Acid, 16 A hr @ 1.0A
 Electrolyte: Sulfuric Acid, sg 1.28 – 1.30 15°C
 Cells: 2 with nominal voltage of 2.0V each
 Short Circuit Current: 55A max.

Components

Battery Jar: Polycarbonate (Red)
 Cell Cover: Polycarbonate (Clear)
 Filler Window: Polycarbonate (Clear)
 Internal Construction: Lead-Acid battery cell
 utilizing tubular plate technology

Product Features

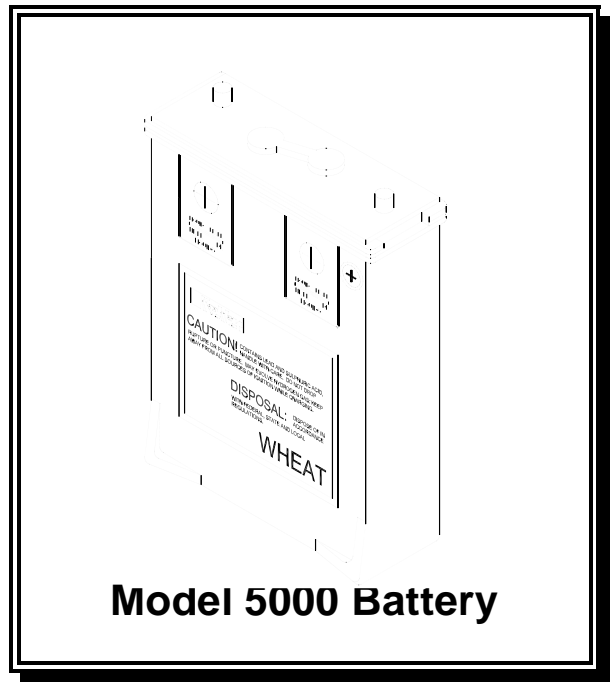
- Intrinsically safe battery design
- Electrolyte visible through clear filler window
- Anti-spill device allows battery to be operated in any position
- 1000+ Charges
- 20 month warranty (100%)
- 3 – 4+ year battery life
- Superior Impact Resistance
- MSHA Approved System

Unit Dimensions (battery)

Depth: 2.2 in. (5.6 cm)
 Width: 5.4 in. (13.7 cm)
 Height: 7.4 in. (20.8 cm)

Typical Performance

12 to 15 hours continuous use between charges when used with the 500175 lantern or with the 5100, 5200, or 6400 series cap lamps.



Model 5000 Battery

Product Comparison

Feature	Koehler	MSA ML-2	Northern Light	Oldham
3 – 4+ year battery life	Yes	No	Yes (claimed)	Yes
1000+ Charges	Yes	No	No	No
Superior chemical resistance	Yes	No	No	Yes
	Yes	No	No	No

The Koehler/Wheat 5000 series

Before a dry battery can be used it must be activated. Dry battery activation consists of two steps, acid electrolyte addition and charging.

Electrolyte Addition

CAUTION! The battery electrolyte is a corrosive ACID. HANDLE CAREFULLY! READ ALL of the following steps before beginning activation procedure.

Each cell in the 5000 series battery contains 162 cc of electrolyte. The electrolyte is sulfuric acid diluted with water. Use technical grade or battery grade sulfuric acid diluted to a specific gravity of 1.295 @ 60°F (15°C) or 38.5 degrees Baumé.

Your battery has a Filler Hole Cover, (part number 7007) in each window. These covers will protect your battery from dust, dirt and other contaminants that could harm its performance. There is a cross slit in the center of the Filler Hole Covers that allows you to add electrolyte or distilled water to the battery **without removing them. The battery should be charged and watered with the filler hole covers left in place. Never add additional electrolyte after the battery has been activated; add only distilled water if necessary.**

When adding electrolyte, tilt battery back slightly **with battery windows facing you**

(do not lay it flat). Insert the filler nozzle as far as possible through the cross slit in the filler hole cover in window of one cell. **Do not remove filler hole covers!!**

Slowly add 162 cc of electrolyte into the cell. If, near end of filling operation, the electrolyte level rises above the bottom edge of the window, stop adding electrolyte for a moment until it soaks into battery separators.

Initial Charging

Place lamp on charger for 24 hours. Add distilled water to the battery after charging, if required. **Never add acid after initial filling.**

Battery Maintenance

- Leave battery on charger when not in use.
- Check electrolyte level weekly and add distilled water as necessary.
- **Add water only when the battery is fully charged.**