

Battery Model: 34/78 Part Number: 8004-003 Nominal Voltage: 12 volts NSN: 6140-01-457-4339

Description: High power, sealed, lead acid, engine starting battery.

Physical Characteristics:

Plate Design: High purity lead-tin alloy. Wound cell configuration utilizing proprietary

SPIRALCELL TECHNOLOGY.®

Electrolyte: Sulfuric acid, H2SO4

Case: Polypropylene Case: Dark Gray

Cover: "OPTIMA" Red

Group Size: BCI: 34/78

	Standard	Metric
Length:	10"	254 mm
Width:	6.8"	172.2 mm
Height:	7.8"	198.1 mm (height at the top of the terminals)
Minimum Weight:	38.8 lb.	17.6 kg

Terminal Configuration: SAE / BCI automotive and GM style side terminal (3/8 - 16 UNC - 2B, threaded nut).

Performance Data:

Open Circuit Voltage (fully charged): 12.8 volts
Internal Resistance (fully charged): .0030 ohms
Capacity: 50 Ah (C/20)
Reserve Capacity: BCI: 104 minutes

(25 amp discharge, 80°F (26.7°C), to 10.5 volts cut-off)

Power:

CCA (BCI 0°F): 800 amps **MCA (BCI 32°F):** 980 amps

Recommended Charging:

The following charging methods are recommended to ensure a long battery life: (Always use a voltage regulated charger with voltage limits set as described below.)

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These batteries are designed for engine starting applications. They are <u>not</u> recommended or warranted for use in deep cycle applications.

Recommended Charging Information:

Alternator: 13.8 to 15.0 volts; no amperage limit

Battery Charger: 13.8 to 15.0 volts; 10 amps maximum; 8 hours maximum

Boost Recharge: Maximum voltage: 15.6 volts (regulated).

Maximum current: 60 amps.

Maximum recharge time: 2 hours.

All limits must be strictly adhered to 13.2 to 13.8 volts; 1 amp maximum current;

time indefinite (at lower voltage levels).

Always wear safety glasses when working with batteries.

Always use a voltage regulated battery charger with limits set to the above ratings. Overcharging can cause the safety valves to open and battery gases to escape, causing premature failure. These gases are flammable! You cannot replace water in sealed batteries that have been overcharged. Any battery that becomes very hot while charging should be disconnected immediately.

Not fully charging a battery can result in poor performance and a reduction in capacity.

Shipping and Transportation Information:

OPTIMA batteries can be shipped by AIR. The battery is nonspillable and is tested according to ICAO Technical Instructions DOC. 9284-AN/905 to meet the requirements of Packing Instructions No. 806 and is classified as non-regulated by IATA Special Provision A-48 and A-67 for UN2800. Terminals must be protected from short circuit.

Manufacturing Location:

OPTIMA Batteries 17500 East 22nd Avenue Aurora, CO 80011 United States of America Phone: 303-340-7400

Fax: 303-340-7474

Float Charge:

BCI = Battery Council International

EN = European Norm

OPTIMA Batteries

Product Specifications: Model 34/78

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