



**MILITARY CUSTOMERS &** 

**OEMs:** 



Battery Model: 75/25 Part Number: 8022-091 Nominal Voltage: 12 volts NSN: 6140 01 475 9361

**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, H<sub>2</sub>SO<sub>4</sub>
Case: Polypropylene
Color: Case: Dark Gray

Cover: "OPTIMA" Red

Group Size: BCI: 75/25

510 ap 6126.			Please contact us for
	Standard	Metric	assistance regarding
Length:	9.340"	237.24 mm	alternator charger settings, shop charging, CAD Drawings, etc.
Width:	6.772"	172.01 mm	
Height:	7.697"	195.50 mm (Height at the top of terminals)	
Weight:	33.1 lb	15.0 kg	

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

## **Performance Data:**

Open Circuit Voltage (Fully charged): 12.8 volts
Internal Resistance (Fully charged): .0030 ohms
Capacity: 44 Ah (C/20)
Reserve Capacity: BCI: 90 minutes

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

#### Power:

CCA (BCI 0°F): 720 amps MCA (BCI 32°F): 910 amps





## **Recommended Charging Information:**

Alternator	Recommended charge voltage setting: 14.2 to 14.8 volts (measured at the battery).  For best results we also recommend use of an alternator/regulator with temperature compensation that adjusts charge voltage relative to battery temperature.	
Battery Charger	Constant voltage type charger. Max charge voltage regulated between 14.4 to 15.0 volts. Typical charge current 10 to 20 amps . Higher amperage is OK with proper voltage regulation. Always monitor battery during charging for signs of overheating.	
For questions or assistance contact the Optima Military Rep group: www.milbatteries.com		

Recharge Time: (example assuming 100% discharge – 10.5 volts)

Current	Approximate time to 90% charge
100 amps	30 minutes
50 amps	55 minutes
25 amps	110 minutes

Recharge time will vary according to temperature and charger characteristics. When using Constant Voltage chargers, amperage will taper down as the battery becomes recharged. When amperage drops below 1 amp, the battery will be close to a full state of charge.

(All charge recommendations assume an average room temperature of 77°F (25°C).

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 end of life. 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.