



Battery Model	H7 (BCI group 49)
Part #	7094-194
NSN	Not issued yet
Description: High-power, dual-purpose engine start & deep cycle battery. AGM, VRLA design.	



Performance Data	
Nominal Voltage	12.0 VDC
Open Circuit Voltage (fully charged)	13.1 VDC
Internal Resistance (fully charged)	.0017 ohms
Capacity (C/20)	80 Ah
Reserve Capacity (25 amp discharge to 10.5V. 80F)	155 minutes
CCA (amps at 0F, 30 seconds)	880 amps
CA (amps at 32F, 30 seconds)	1,000 amps

Physical Characteristics:	
Plate Design	99.99% pure lead, highly compressed radial grid plates & direct path cast on straps. With PUREFLOW TECHNOLOGY™
Electrolyte	Sulfuric acid, H <sub>2</sub> SO <sub>4</sub>
Case	Polypropylene. Case: Light gray. Cover: "OPTIMA" Yellow
Group size	H6. Same as USA BCI group size 48
Length	12.4" / 315 mm
Width	6.89" / 175 mm
Height	7.48" / 190 mm
Weight	54 lbs / 24.4 kg
Terminals	Standard automotive tapered lead posts

Manufacturer Representatives to the US Military  
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### Recommended Charging:

Alternator	Voltage setting: 14.0 to 14.8 measured at the battery. For best results alternator should have temperature compensation capability with temp measured at battery.
Battery Charger	Constant voltage charger designed for AGM batteries. Max charge voltage regulated between 14.4 to 15.0 VDC. Always monitor battery during recharge for signs of overheating. Contact us for military approved charger recommendations.
Please contact us to discuss the best charging methods/settings for your application.	

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.



#### **PUREFLOW TECHNOLOGY™**

The new OPTIMA® YELLOWTOP® is a true dual-purpose battery, delivering ultimate starting power and deep-cycling in one package.

#### **OPTIMA PUREFLOW FACTS:**

- The new OPTIMA YELLOWTOP has been engineered with 99.99% pure lead, highly compressed radial grids and a direct-path cast-on strap to deliver robust power, extreme recharge and unsurpassed performance.
- 99.99% pure lead in highly compressed radial grid plates provide resistance to damage from vibration and corrosion.
- OPTIMA proprietary AGM flat-plate technology features ultra-thin fibers woven into each highly compressed plate, increasing plate count and surface area, which ultimately maximizes the power and significantly extends the life of the battery.
- The exclusive direct-path cast-on strap establishes a direct connection between power cells, reduces internal resistance and maximizes the flow of energy, which provides faster cranking power and higher cold-cranking amps.

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