

# OPTIMA® RedTop U 4,2



**Battery Model:** RT U 4,2  
**Part Number:** 804 250 000 888 2  
**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, H<sub>2</sub>SO<sub>4</sub>  
**Case:** Polypropylene  
**Color:** Case: Dark Gray  
Cover: "OPTIMA" Red  
**Group Size:** BCI: 34/78

	Standard	Metric
<b>Length:</b>	10"	254 mm
<b>Width:</b>	6.875"	175 mm
<b>Height:</b>	7.813"	200 mm (height at the top of the terminals)
<b>Weight:</b>	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):** 0.0030 ohms  
**Capacity:** 50 Ah (C/20)  
**Reserve Capacity:** BCI: 100 minutes  
(25 amp discharge, 80°F (26.7°C), to 10.5 volts cut-off)

## Power:

**CCA (EN -18°C):** 815 amps  
**MCA (BCI 0°C):** 1000 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 not recommended or warranted for use in deep cycle applications.

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## Recommended Charging Information:

<b>Alternator:</b>	13.3 to 15.0 volts; no amperage limit
<b>Battery Charger:</b>	13.8 to 15.0 volts; 10 amps maximum; 6-12 hours approximate
<b>Float Charge:</b>	13.2 to 13.8 volts; 1 amp maximum current (indefinite time at lower voltages)
<b>Rapid Recharge: (Constant voltage charger)</b>	Maximum voltage 15.6 volts. No current limit as long as battery temperature remains below 50°C (125°F). Charge until current drops below 1 amp. <b>All limits must be strictly adhered to.</b>

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

Current	Approx. time to 90% charge
100 amps	35 minutes
50 amps	75 minutes
25 amps	140 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 charge.

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

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.

## Manufacturing Location:

OPTIMA Batteries  
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BCI = Battery Council International

OPTIMA Batteries  
Product Specifications: Model RT U 4,2  
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