

# OPTIMA® BlueTop TrollFury



**Kit Model:** TrollFury

**Part Number:** 988112

**Nominal Voltage:** 12 volts or 24 volts

**NSN:** N/A

**Description:** Kit that requires additional purchase of two BT DC 4,2, high power, dual purpose engine start and deep cycle, sealed lead acid batteries

## 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: Light Gray  
Cover: "OPTIMA" Blue

	Standard	Metric
<b>Length:</b>	23.25"	581 mm
<b>Width:</b>	8.5"	213 mm
<b>Height:</b>	8.5"	213 mm (height at the top of the terminals)
<b>Weight:</b>	90 lb.	40.8 kg

Terminal Configuration: Threaded stainless steel stud 5/16".

## Performance Data:

	12 Volt	24 Volt
<b>Capacity:</b>	110 Ah (C/20)	55 Ah (C/20)
<b>Reserve Capacity:</b>	BCI: 240 minutes (25 amp discharge, 80°F (26.7°C), to 10.5 volts cut-off)	BCI: 120 minutes (25 amp discharge, 80°F (26.7°C), to 10.5 volts cut-off)

## Power:

	12 Volt	24 Volt
<b>CCA (EN -18°C):</b>	1530 amps	765 amps
<b>MCA (BCI 0°C):</b>	1740 amps	870 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 starting and deep cycling applications and for use in boats with large accessory loads.

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## Recommended Charging Information Based on 12 V Set-up:

<b>Alternator:</b>	13.65 to 15.0 volts
<b>Battery Charger:</b> (Constant Voltage)	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:</b> <b>(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-24 V:** (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-12 V:** (example assuming 100% discharge – 10.5 volts)

Current	Approx. time to 90% charge
100 amps	70 minutes
50 amps	150 minutes
25 amps	280 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°F, 77°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.

## Manufacturing Location:

OPTIMA Batteries  
17500 East 22nd Avenue  
Aurora, CO 80011  
United States of America  
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BCI = Battery Council International