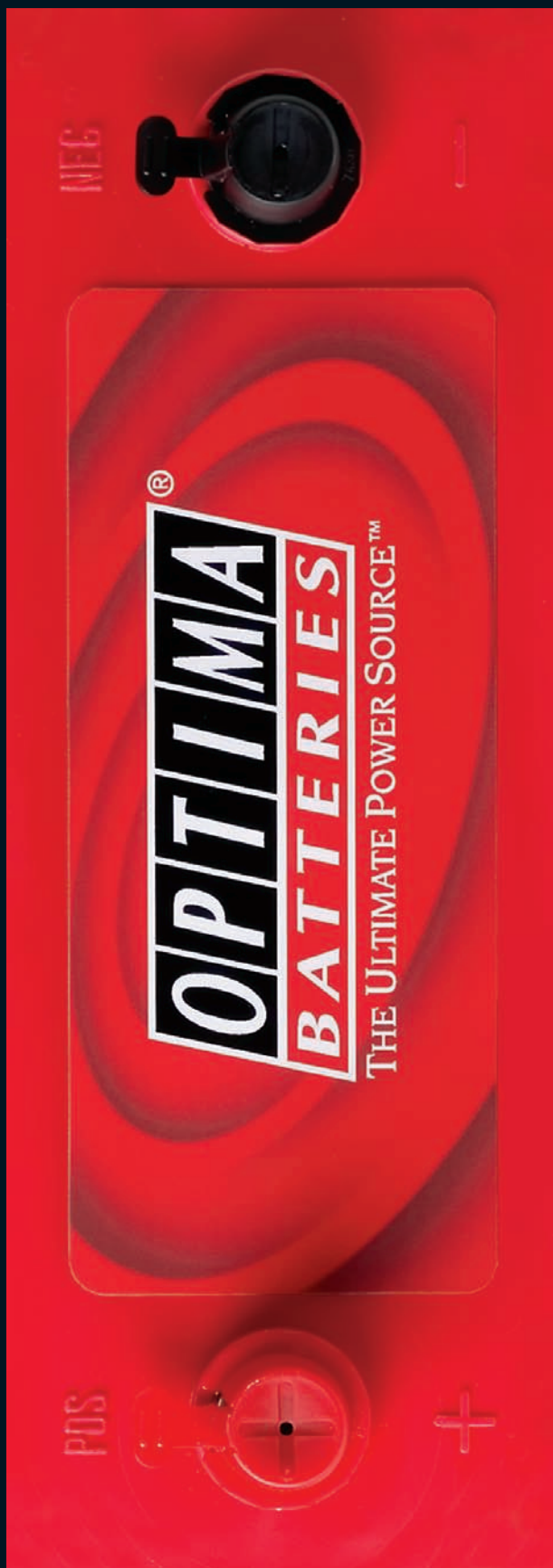


THE ULTIMATE POWER SOURCE



CAR HIFI • TUNING • 4x4 • MARINE APPLICATIONS

OPTIMA
BATTERIES
THE ULTIMATE POWER SOURCE™



Johnson
Controls



Low internal resistance
allows for better sound quality



No gassing or unpleasant
smells, 100% spill-proof



OPTIMA® YELLOWTOP® DEEP CYCLE BATTERY FOR EXTREME APPLICATIONS

OPTIMA® YellowTop® batteries are made for the extremes. Whether your vehicle is designed to crank out the decibels or take the abuse of off-road driving, you need more from your battery. OPTIMA® Batteries with patented SpiralCell® Technology deliver deep cycle characteristics coupled with an extreme resistance to vibration. This combination provides performance vehicles with the repetitive power they need in a spill-proof package.

If your vehicle has a lot of accessories like high performance stereo/AV systems, extra lights, winches or hydraulics it demands more from its battery. OPTIMA® YellowTop® batteries provide the extra performance and cycling capability that your vehicle demands.



OPTIMA[®]
BATTERIES
THE ULTIMATE POWER SOURCE™


SPIRALCELL[®]
TECHNOLOGY



100% spill-proof

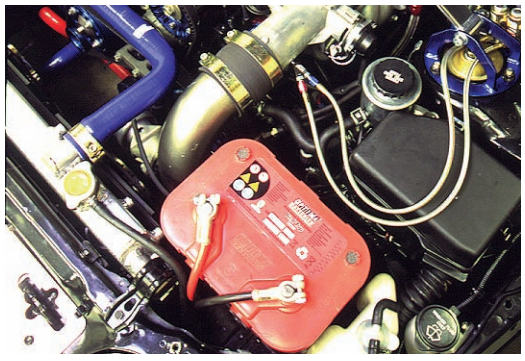


Performs well under extreme temperatures

OPTIMA® REDTOP® A STARTING BATTERY WITH PERFORMANCE POWER

The looks alone generate plenty of excitement. Made for tuner, truck, SUV, and 4X4 vehicles: OPTIMA® Batteries can withstand the high under-hood temperatures in vehicles with performance engines.

The sealed cells make the battery spill-proof, even if you install it on its side! There's no chance of potential damage from battery acid. In addition, the patented SpiralCell® Technology in OPTIMA® Batteries immobilizes the internal components of the battery, enabling OPTIMA® Batteries to withstand incredible amounts of vibration.





Over 15 times more
vibration resistance

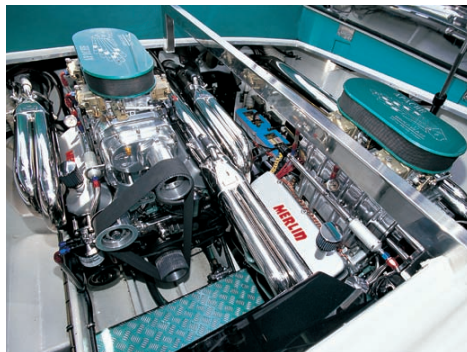


Up to 3 times
quicker recharging



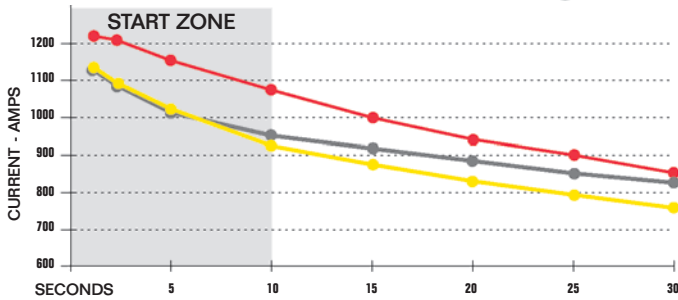
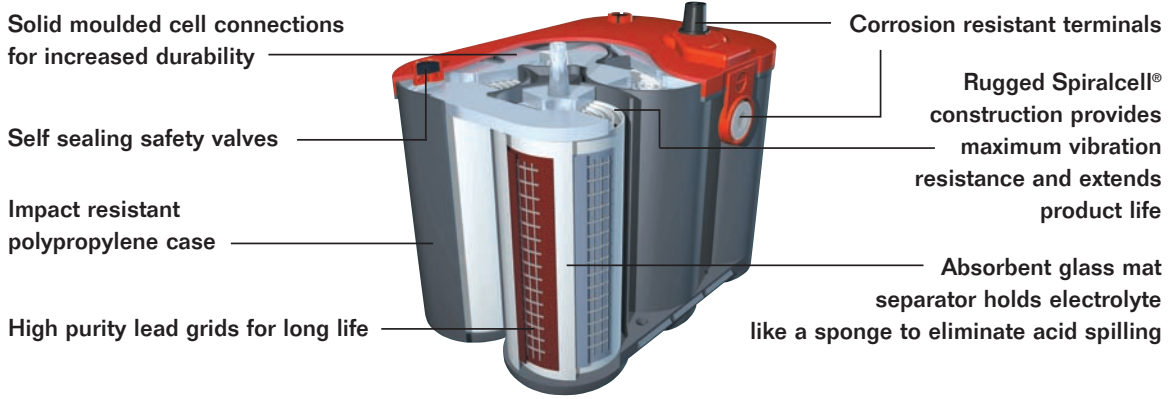
OPTIMA® BLUETOP® STARTING AND DEEP CYCLE BATTERY FOR MARINE APPLICATIONS

An OPTIMA® BlueTop® battery will let you stay on the water longer. Whether it's yachting, sailing, or cruising the sea in your motorboat – the OPTIMA® BlueTop® battery will always be your true and reliable companion. Its patented SpiralCell® Technology means more running time, shorter recharge time and twice the life of traditional marine batteries. Plus, it's spill-proof, can be stored longer and has 15 times the vibration resistance, not to mention superior heat resistance. Look for its colored top and six-pack shape at your local battery dealer.



OPTIMA
BATTERIES
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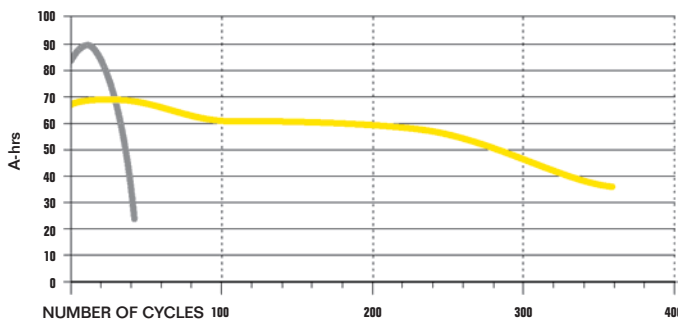

SPIRALCELL
TECHNOLOGY



More starting power

OPTIMA® Batteries deliver a higher level of power to the starter in the critical first 10 seconds of the vehicle starting cycle.

- OPTIMA® RedTop®
- OPTIMA® YellowTop®
- Traditional Battery

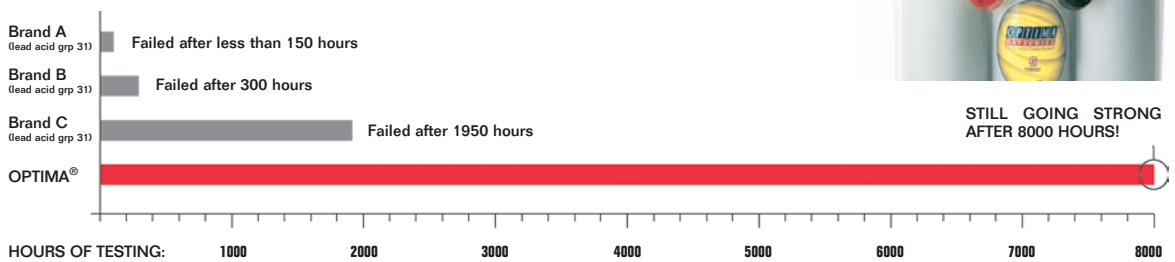


Repetitive reserve capacity

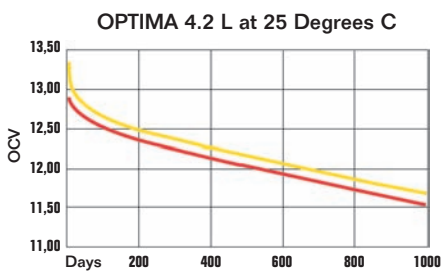
OPTIMA® Batteries have the ability to withstand significantly more discharge/recharge cycles and still accept a high percentage of the original full capacity.

- OPTIMA® YellowTop® 75 Ah/C20
- Traditional battery 98 Ah/C20

Shake it up! Damage from vibration is a leading cause of battery failure. OPTIMA® Batteries have over 15 times more vibration resistance than traditional batteries due to patented Spiralcell® Technology.



STILL GOING STRONG AFTER 8000 HOURS!



Long shelf life

OPTIMA® Batteries are ideal for vehicles that are used seasonally because of their low self-discharge rate. All batteries that sit unused for extended periods of time will begin to lose charge. But OPTIMA® Batteries retain a significantly greater amount of power, enough to start large vehicles like tractors, harvesters, and recreational vehicles even after a long winter of no use.

- OPTIMA® RedTop® 4.2
- OPTIMA® YellowTop® 4.2

OPTIMA® YELLOWTOP®

	YT S 5,5 (BCI D31A)	YT S 4,2 (BCI D34)	YT U 4,2 (BCI D34/78)	YT R 3,7 (BCI D35)	YT S 2,7 (BCI D51)	YT S 2,7 J (BCI D51)	YT R 2,7 (BCI D51R)	YT R 2,7 J (BCI D51R)	YT S 2,1 (6 VOLT)
Part Number	851 187 000 888 2	812 254 000 888 2	814 254 000 888 2	840 222 000 888 2	871 176 000 888 2	870 176 000 888 2	873 176 000 888 2	872 176 000 888 2	818 356 000 888 2
Length base: mm	317	245	245	229	228	228	228	228	253
Length top cover: mm	325	254	254	237	237	237	237	237	254
Height not including terminals: mm	218	173	173	168	201	201	201	201	176
Height including terminals: mm	238	200	200	197	227	227	227	227	203
Width base: mm	158	172	172	172	121	121	121	121	83
Width top cover: mm	165	175	175	171	129	129	129	129	90
Nominal Voltage: V	12	12	12	12	12	12	12	12	6
Cold Cranking Amps: (EN) CCA	975	765	765	660	460	460	460	460	765
Capacity: (EN) Ah	75	55	55	48	38	38	38	38	55
Reserve Capacity: (BCI) Min	155	120	120	98	66	66	66	66	120
Weight: kg	26,5	19,5	19,9	16,6	11,8	11,8	11,8	11,8	9,5

OPTIMA® REDTOP®

	RT C 4,2 (BCI 34C)	RT S 4,2 (BCI 34)	RT R 4,2 (BCI 34R)	RT U 4,2 (BCI 34/78)	RT F 4,2 (BCI 78)	RT S 3,7 (BCI 25)	RT R 3,7 (BCI 35)	RT U 3,7 (BCI 75/25)	RT S 2,1 (6 VOLT)
Part Number	801 287 000 888 2	802 250 000 888 2	803 251 000 888 2	804 250 000 888 2	878 209 000 888 2	820 255 000 888 2	835 255 000 888 2	822 255 000 888 2	810 355 000 888 2
Length base: mm	245	245	255	245	245	229	229	229	255
Length top cover: mm	254	254	254	254	254	237	237	237	252
Height not including terminals: mm	184	173	173	173	184	168	168	168	185
Height including terminals: mm	200	200	200	200	184	197	197	197	206
Width base: mm	172	172	172	172	172	172	172	172	83
Width top cover: mm	175	175	175	175	185	171	171	171	90
Nominal Voltage: V	12	12	12	12	12	12	12	12	6
Cold Cranking Amps: (EN) CCA	815	815	815	815	815	730	730	730	815
Capacity: (EN) Ah	50	50	50	50	50	44	44	44	50
Reserve Capacity: (BCI) Min	100	100	100	100	100	90	90	90	110
Weight: kg	17,2	17,2	17,2	17,6	17,5	14,4	14,4	15	8,3

OPTIMA® BLUETOP®

	BT DC 5,5 (BCI D31M)	BT DC 5,0 (BCI D27M)	BT DC 4,2 (BCI D34M)	BT SLI 4,2 (BCI 34M)
Part Number	852 188 000 888 2	827 227 000 888 2	816 253 000 888 2	806 252 000 888 2
Length base: mm	317	300	245	245
Length top cover: mm	325	309	254	254
Height not including terminals: mm	218	200	173	173
Height including terminals: mm	238	221	200	200
Width base: mm	158	169	172	172
Width top cover: mm	165	172	175	175
Nominal Voltage: V	12	12	12	12
Cold Cranking Amps: (EN) CCA	975	845	765	815
Capacity: (EN) Ah	75	66	55	50
Reserve Capacity: (BCI) min	155	140	120	100
Weight: kg	26,5	22,7	19,7	17,4

Your authorised dealer/distributor

www.optimabatteries.com

CHARGING INFORMATION

ALTERNATOR 13.8 to 15.0 volts

BATTERY CHARGER (Constant Voltage)

13.8 to 15.0 volts, 10 amps, 12-15 hours approximate

FLOAT CHARGE

13.2 to 13.8 volts, 1 amp maximum current

RAPID RECHARGE (Constant Voltage Charger)

Maximum voltage 15.6 volts. No current limit as long as temperature remains below 50°C. Charge until current drops below 1 amp.

RECHARGE TIME

(Example assuming 100% discharge - 10.5 volts)

AMPERAGE	APPROX. TIME TO 90% CHARGE	
	4,2	5,5
100 amps	35 minutes	52 minutes
50 amps	75 minutes	112 minutes
25 amps	140 minutes	210 minutes

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

CYCLIC APPLICATION OR STRING SERIES APPLICATIONS

Constant Voltage with Constant Current finish (CC/CV):

14.7 volts, temperature < 50°C, no current limits.

When current falls below 1 amp, finish with 3 amps constant current for 1 hour for type 5,5 and 2 amps for all other types.

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

OPTIMA
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