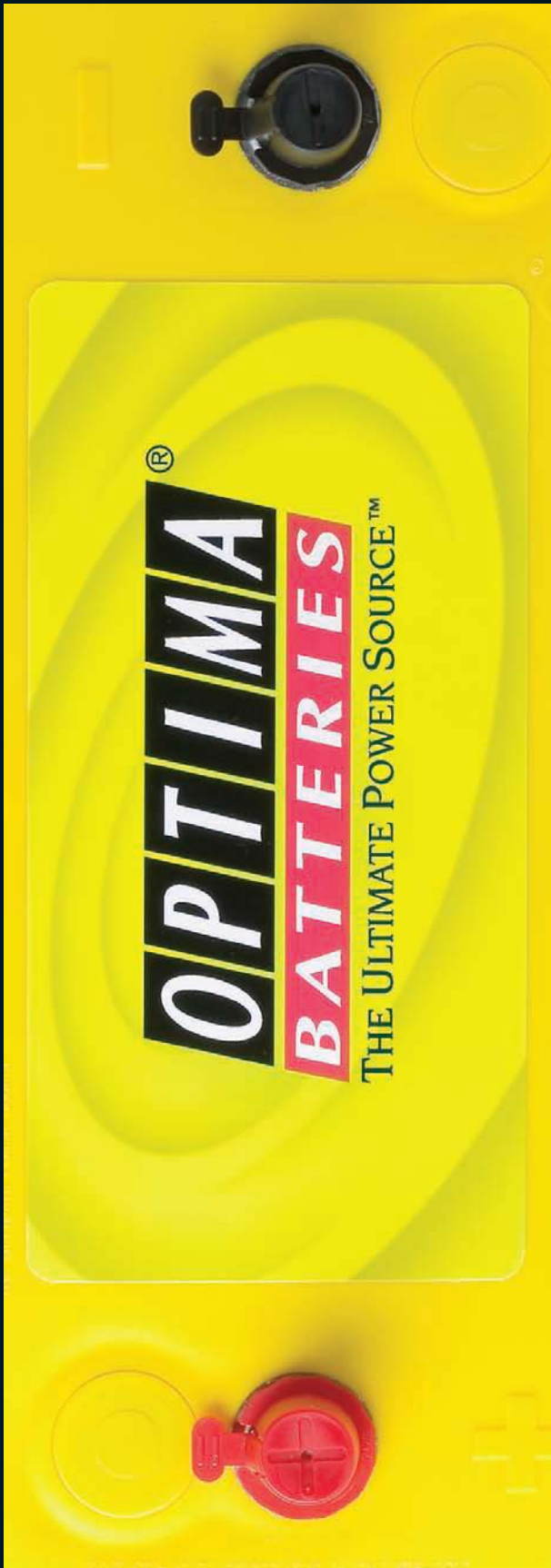


THE ULTIMATE POWER SOURCE



- Day Time Cleaning
- Rapid Recharge
- Green Technology
- Increased Productivity
- Sustainability



DEEP CYCLE BATTERIES FOR ADVANCED CLEANING

OPTIMA
BATTERIES
THE ULTIMATE POWER SOURCE™



Johnson
Controls 

RECHARGE TIME

RECHARGE TIME (Example assuming 100% discharge - 10.5 volts)

AMPERAGE	APPROXIMATE TIME TO 90% CHARGE	
	Type 4,2	Type 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)

Solid moulded cell connections for increased durability

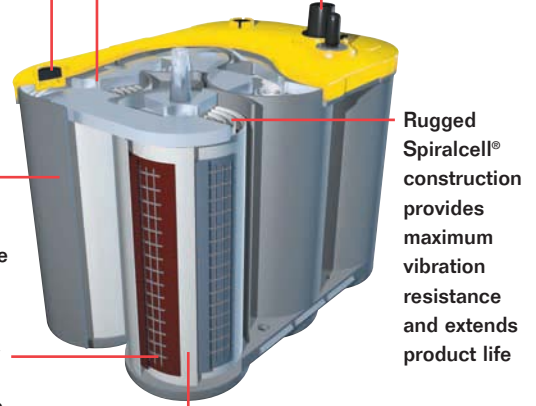
Corrosion resistant terminals

Self sealing safety valves

Impact resistant polypropylene case

High purity lead grids for long life

Absorbent glass mat separator holds electrolyte like a sponge to eliminate acid spilling

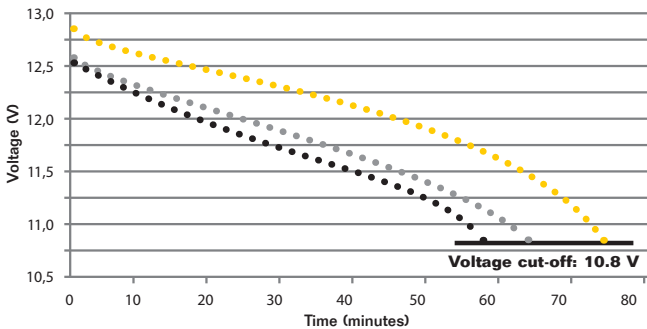


OPTIMA® YELLOWTOP®



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

OPTIMA® with best discharge performance!



Discharge Monitor of OPTIMA® vs. competitive AGM flat plate and Gel batteries; 38 amps discharge current to 10.8 V; Ambient: 22°C

- OPTIMA®
- Flat plate AGM
- Gel

Your contact: