

CHARGING INFORMATION

6V BATTERIES

ALTERNATOR 6.55 to 7.5 volts

CHARGER 6.9 to 7.5 volts

FLOAT CHARGE 6.6 to 6.9 volts

RAPID RECHARGE (Constant Voltage Charger)

Maximum voltage 7.8 volts.

12V BATTERIES

ALTERNATOR 13.3 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 1amp.

RECHARGE TIME

(Example assuming 100% discharge – 10.5 volts)

AMPERAGE	APPROX. TIME TO 90% CHARGE	
	*GROUP 1	**GROUP 2
100 amps	35 mins	52 mins
50 amps	75 mins	112 mins
25 amps	140 mins	210 mins

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 stage 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 Group 5.5 and 2 amps for all other Group 4.2 types.

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

*GROUP 1: 25 REDTOP®, 34/78 REDTOP®, 6V REDTOP®, 34M BLUETOP®, D34/78 YELLOWTOP®

**GROUP 2: D31A YELLOWTOP®

CHARGERS & MAINTAINERS

Century's range of 6 Volt & 12 Volt battery chargers can charge batteries rated up to 240Ah^a and maintain batteries rated up to 360Ah. Incorporating patented rejuvenation technology, the chargers have the ability to recover heavily discharged batteries, and will activate from as low as 3 Volts^b.



ITEM ID	PRODUCT TYPE	BATTERY TYPE	MIN. START VOLTAGE	CHARGING RANGE
CENTURY BATTERY CHARGERS & MAINTAINERS				
690012	CC6121.2	SMF (Calcium) AGM, Flooded & Gel, conventional lead-acid batteries	3 Volts	Charges batteries rated up to 24Ah* Maintains batteries rated up to 100Ah
690010	CC1206	SMF (Calcium) AGM, Flooded & Gel, conventional lead-acid batteries	3 Volts	Charges batteries rated up to 120Ah* Maintains batteries rated up to 180Ah
690011	CC1212	SMF (Calcium) AGM, Flooded & Gel, conventional lead-acid batteries	3 Volts	Charges batteries rated up to 240Ah* Maintains batteries rated up to 360Ah

*Conditions apply. Refer to the warranty section of the owner's manual. ^aBased on 5 to 30% of battery Ah ratings. For optimum charging, 10% of battery Ah rating is recommended for flooded batteries and 20% of battery Ah rating is recommended for AGM & Gel batteries. ^b8 Volt activation on the CC6121.2, when 12 Volt setting is selected.

EVEN MORE REASON'S TO CHOOSE CENTURY YUASA

The OPTIMA® range of spiral cell Deep Cycle, Marine and Starting batteries are available from Century Yuasa Batteries, New Zealand's oldest and most recognised battery supplier.

The Century Yuasa Difference...

With one of New Zealand's most extensive distribution networks and an industry leading sales support and customer service network there are more reasons to choose Century Yuasa as your first choice supplier of OPTIMA® batteries:

- ✓ Extensive product range
- ✓ Locally held & readily available product
- ✓ Superior service & after sales support from local battery experts
- ✓ No minimum order requirement or conditions
- ✓ Comprehensive nationwide warranty
- ✓ Full product training



OPTIMA® Batteries

A range of high performance batteries featuring revolutionary spiral cell technology specially designed to deliver superior performance and longer life. Unlike standard batteries which incorporate flat plates, OPTIMA® batteries utilise spiral wound cells which provide greater resistance from vibration damage, deliver more efficient starting power and longer battery life.

- ✓ Up to 2 x longer life than flat-plate batteries
- ✓ Lower self discharge for longer life
- ✓ 15 x more vibration resistance than standard lead-acid batteries
- ✓ Exceptional starting power
- ✓ Maintenance free & non-spillable
- ✓ Dual purpose – deep cycling and cranking power in one battery

SIMPLY ADD OPTIMA® PRODUCTS TO YOUR REGULAR STOCK ORDER

ONE ORDER – ONE DELIVERY – ONE INVOICE

For more information on OPTIMA® batteries or the range of products available from Century Yuasa Batteries contact your representative on 0800 93 93 93.

CenturyYuasa

THE ULTIMATE POWER SOURCE



CenturyYuasa

OPTIMA
BATTERIES

THE ULTIMATE POWER SOURCE™

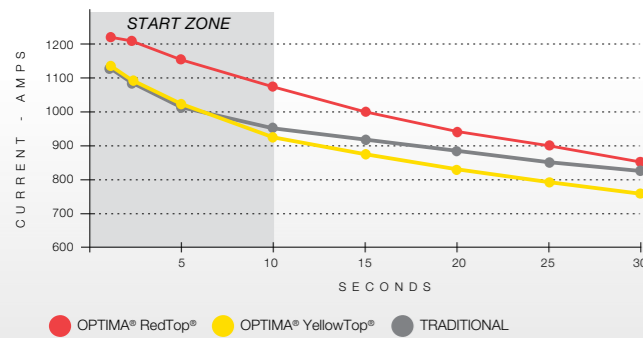
THE SPIRALCELL TECHNOLOGY®



- 1 Corrosion resistant terminals
- 2 Solid moulded cell connections for increased durability
- 3 Self sealing safety valves
- 4 Rugged SPIRALCELL construction provides maximum vibration resistance and extends product life
- 5 Impact resistant polypropylene case
- 6 High purity lead grids for long life
- 7 Absorbent glass mat separator holds electrolyte like a sponge to eliminate acid spilling

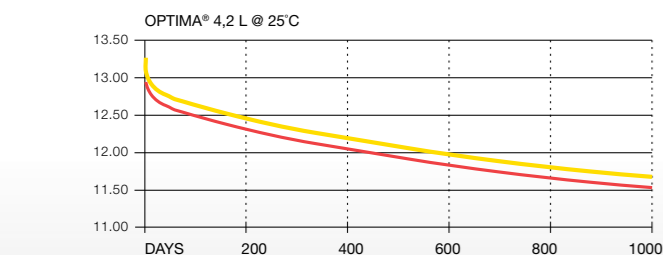
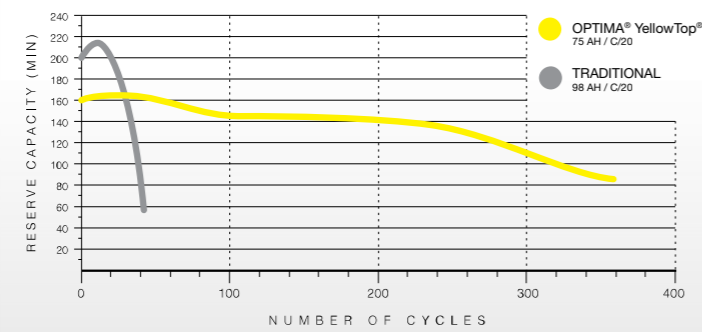
MORE STARTING POWER

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



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.



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, harvestors and recreational vehicles even after a long winter of no use.

REDTOP® BATTERIES

The REDTOP® high-performance AGM battery is the ultimate starting battery and is designed to deliver a strong burst of ignition power for a reliable start-up every time. It has high-power delivery and extreme resistance to the most common causes of battery failure.

- Strongest starting burst.
- Up to 3x longer life.
- 15 times more vibration-resistant.
- Spill Proof Design.



BLUETOP® BATTERIES

The BLUETOP® is a high-performance AGM battery with exceptional running time and more recharges than you'd get out of a traditional battery. On top of providing outstanding vibration resistance, the BLUETOP's efficient power delivery and faster recharge time means you'll spend less time worrying about your battery. This flexible boat battery and RV battery is ideal for those who need a sure-starting, strong-cranking, maintenance-free power source.

- Withstands wave pounding.
- Resistant to terminal corrosion.
- Longer storage life for seasonal marine use.
- Zero Spills: Can be rotated up to 180° with no spilling.



YELLOWTOP® BATTERIES

The YELLOWTOP® high-performance AGM battery is one of the few true dual-purpose automotive batteries available. With premium cranking power and impressive cycling capability, this heavy-duty battery is also perfect for modern accessory-loaded vehicles. Low internal resistance also provides more consistent power output and faster recharges.

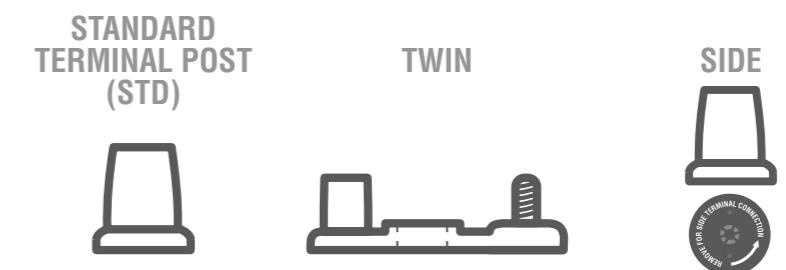
- Spiralcell plate design offering the perfect mix of high cranking power and cyclic performance for superior vibration resistance and extended life.
- Resistant to wear from road corrugation and environment extremes.
- Up to 15 times more vibration resistant than traditional batteries making it the perfect starting and deep cycle battery for commercial vehicles, heavy equipment and luxury RVs and 4WDs.



ITEM ID	BATTERY TYPE	DESCRIPTION	WARRANTY*	VOLTS	CCA	RC	MCA	AH	DIMENSIONS (mm)			WEIGHT (KG)	POLARITY	TERM. TYPE	SPECIAL FEATURES
									L	W	H				
OPTIMA® RANGE															
619000	25 REDTOP®	Spiral Battery		36	12	720	90	-	236	173	198	15.45	D	STD	CH, GM, MF, SC
619001	34/78 REDTOP®	Spiral Battery		36	12	800	104	-	254	173	198	18.45	D	STD/SIDE	CH, GM, MF, SC
619002	6V REDTOP®	Spiral Battery		36	6	800	104	-	254	89	198	8.36	H	STD	CH, GM, MF, SC
639000	34M BLUETOP®	Marine Battery		36	12	800	104	1000	254	172	198	17.70	D	TWIN	GM, MF, SC
649000	D31A YELLOWTOP®	Deep Cycle Battery		36	12	900	-	75	329	171	238	27.00	D	STD	CH, GM, MF, SC, VR
649001	D34/78 YELLOWTOP®	Deep Cycle Battery		36	12	750	-	55	254	173	199	20.45	D	STD/SIDE	CH, GM, MF, SC, VR

*36 month warranty applies to personal use only. Special Features Key: CH - Carry Handles, GM - Glass Mat, MF - Maintenance Free, SC - Spiral Cell, VR - Value Regulated

TERMINAL TYPES



CELL LAYOUT

