PRODUCT RANGE BROCHURE

centurybatteries.co.nz

Century
Batteries that last and last

Designed for...
New Zealand conditions

That's the Century Difference

When it comes to our vehicles we push them hard and so does New Zealand's environment.

Driving through the high country in winter, under bonnet temperatures could drop below 0°C, a trip to the corner store can be a 15 minute drive - and the hill on the way home a vertical ascent.

Our journeys take in the smoothest of roads and the roughest alpine tracks. We need a battery that we can rely on to power our unique lifestyle. So we delivered one. Then another and another.

And we continue to innovate and improve, because that's the Century way.

Century
Batteries that last and last

DESIGNED FOR NEW ZEALAND CONDITIONS

Roadmap

Century Batteries, designed for New Zealand conditions

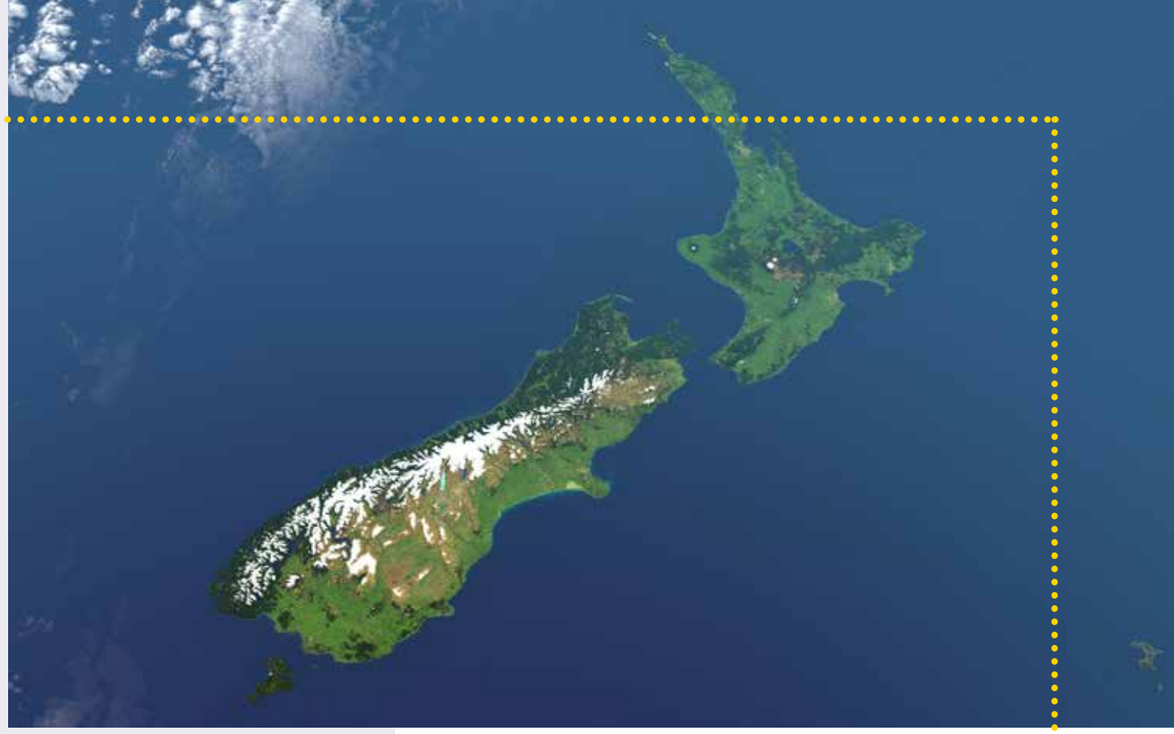
Century Batteries is part of the Century Yuasa group, New Zealand's leading battery supplier. Our reputation for quality and innovation has been refined and demonstrated over many decades.

In this time we have developed the engineering expertise and technical know-how to ensure we deliver a range of superior quality batteries better suited to New Zealand's diverse climate and tough conditions.

Today we pride ourselves in offering our customers a range of market leading products and services which continue to set new standards in technology and performance.

The Century product range includes a comprehensive selection of technologically advanced products for use in a diverse range of applications including:

- **Idle Stop Start Vehicles**
- **Hybrid & EV Vehicles**
- **Car & Passenger Vehicles**
- **SUV, 4x4 & Light Commercial**
- **Truck, Bus & Heavy Equipment**
- **Deep Cycle**
- **Marine**
- **Lawn & Garden**



A True Global Leader

Since its foundation in 1895, GS Yuasa has continually worked to create advanced stored energy solutions under the corporate vision of "innovation and growth". It is this philosophy that has seen GS Yuasa establish itself as the world's leading manufacturer of automotive and motorcycle batteries.

Our parent company GS Yuasa is one of the world's largest battery manufacturers and a global leader in quality and innovation.

GS YUASA

Proven Performance

GS Yuasa are original equipment (OE) suppliers to the world's leading vehicle manufacturers.

As an affiliate of the GS Yuasa Corporation, Century has access to some of the most advanced technical and R&D resources available in the battery industry. This gives you the assurance that every battery in the Century range has been developed using state-of-the-art manufacturing processes and technical expertise.

Why you can rely on Century Batteries as your complete power solutions provider.

...

Innovation and Technology

We invest significantly in research and development to ensure we continue to meet the needs of the market place and the next generation of vehicles.

Extensive Product Range

The Century product range includes a comprehensive selection of technologically advanced products including starting, deep cycle, dual purpose and heavy duty batteries for use in a diverse range of applications.

Nationwide Warranty

Each Century battery is backed by a fully comprehensive warranty^. This provides peace of mind that your battery is covered against faulty materials or workmanship for up to 40 months^.

Key Partnerships

A majority of leading Original Equipment Manufacturers (OEM) and New Zealand's biggest retail brands trust Century Batteries for their energy solutions. We continually work with our partners to deliver on design, technology and quality.

Corporate Social Responsibility

We are committed to the environment and building a cleaner future, investing in a range of CSR & Sustainability initiatives focused on reducing our environmental footprint and benefiting New Zealand for future generations.

Nationwide Recycling Program

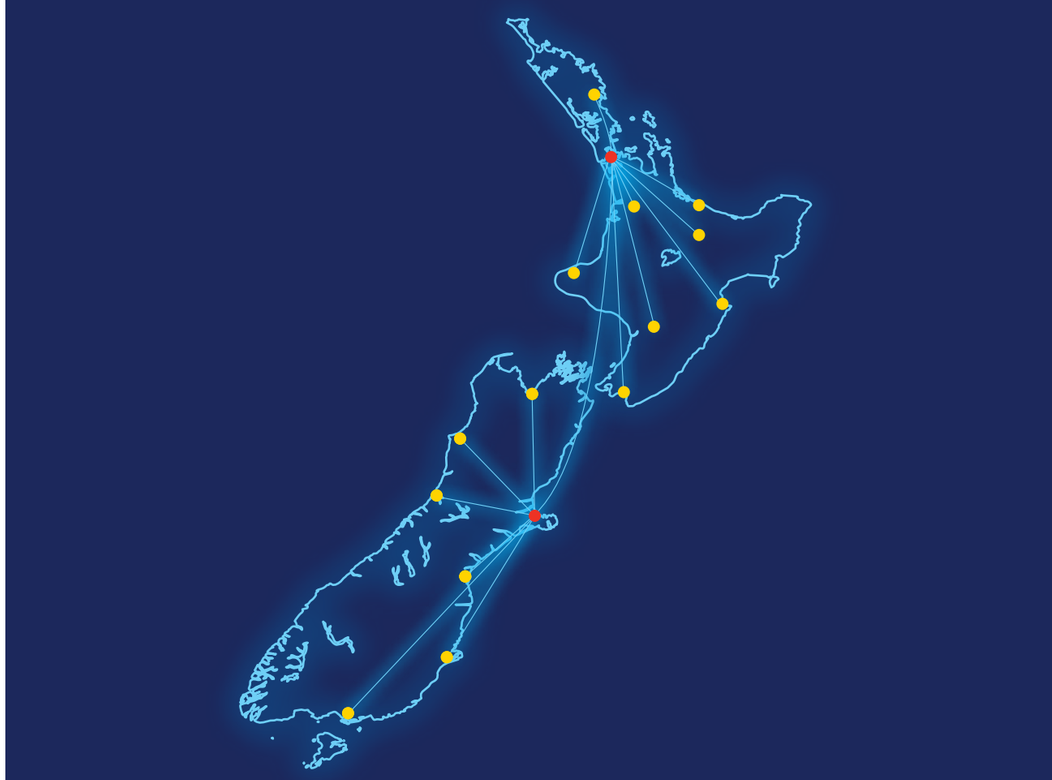
Century Batteries is proud to be part of the Century Yuasa Battery Recycling Program which recycles more than 40,000 batteries nationwide each year.

Providing sustainable energy solutions for today, tomorrow and the future.

^Conditions apply. Refer to individual warranty statements attached to each product.

Our Network

Our national network of branches and distribution centres are strategically located across New Zealand ensuring access to locally held products and battery experts.



Battery Ratings

Batteries are rated according to a range of specifications and standards. Understanding these ratings and their relevance to the battery's application and operating conditions is key to selecting the right battery.

CCA

(Cold Cranking Amperes)

This is a measurement of the current a fully charged battery can deliver for 30 seconds, whilst also maintaining a voltage of 7.2volts. This test is performed at a temperature of -18°C, and is used to determine a battery's ability to start the engine and maintain sufficient voltage to power the ignition requirements under severe cold starting conditions.

MCA

Marine Cranking Amperes

Similar to CCA, MCA is used to measure the current a marine battery can deliver for 30 seconds at a specific temperature.

MCA tests are conducted at 0°C (instead of -18°C) and the results are often 20 – 25% higher than the equivalent CCA rating. Because of this, it is important to always compare like for like, and never compare CCA to MCA, or vice-versa.

AH

Ampere-Hour @ 20hr

Ah refers to the battery's storage capacity, and is the current a fully charged battery will deliver over a 20 hour period - before the voltage falls to 10.50 volts. An Ah test is always performed at 25°C.

RC

Reserve Capacity

An RC rating refers to the length of time (in minutes) that a battery can deliver a current of 25 amps until the voltage drops below 10.50 volts. This test is performed at 25°C, and represents a typical electrical load on a car under normal running conditions. Therefore, an RC rating is a good indication of how many minutes a vehicle will run for in the event of a charging system or alternator failure.

How Important is CCA?

For many years, CCA (or Cold Cranking Amperes) has been widely used as a benchmark to measure and compare lead-acid batteries – with the assumption being the higher the CCA, the better the battery. As a result, some manufacturers produce batteries with excessively high CCA ratings to take advantage of this misconception.

Lead acid batteries contain lead plates, wrapped in separators to insulate and prevent them from touching each other directly and creating a short circuit. A battery can be made to achieve a higher CCA rating by simply adding more of these plates to the battery internals. But in order to achieve this, both the lead plates and the separator material needs to be thinner – and this can have an impact on the strength and durability of these components.

In colder climates, adding more plates and increasing the battery's CCA rating may be desirable. However, in hotter climates, having thicker lead plates to combat corrosion and more robust separators are equally important as cranking capacity.

At Century, we believe that it is far more important to strike a balance between CCA and providing a long service life. Our batteries feature expertly designed internal components and an extremely durable construction to combat the causes of battery failure and deliver what New Zealand motorists really want – longer life and superior performance.

So don't be misled by high CCA ratings – they aren't always better.

The Century Batteries Difference

Century's range of sealed maintenance free batteries are the ultimate in battery performance and technology.

Featuring specialist internal components, unique design features and industry leading technologies to combat the causes of battery failure and deliver reliability, longer life and superior performance.

Delivering more than just superior starting power, Century batteries deliver exceptional corrosion resistance, longer life and the performance to handle the demands of today's modern vehicles.

Based on 68EB MF battery.

1 ROLLED EXPANDED HIGH TIN GRID
- Provides improved corrosion resistance and longer life.

2 WROUGHT LEAD-CALCIUM GRIDS
- Improves resistance to grid corrosion & over-charging.
- Minimises gassing and water usage for reduced self-discharge.

3 LOW-RESISTANCE ENVELOPE SEPARATORS
- Helps prevent internal shorts between positive and negative plates.
- Improves vibration resistance.

4 NST PLATE TISSUE
- Special tissue on positive plates prevents active material shedding during frequent charging and discharging.

5 PLATELOCK™ TECHNOLOGY
- Combats vibration shock and damage from rough, uneven conditions.

6 DIAMOND MESH
- Increased conductivity for higher performance.

7 DOUBLE LID WITH LABYRINTH STRUCTURE
- Prevents electrolyte loss by collecting and returning liquid to the reservoir.
- Vents allow the battery to breathe during temperature changes and charging.

8 FLAME ARRESTOR
- Prevents external ignition sources from entering the battery.

9 CAST-ON STRAPS
- Stronger than conventional connectors.
- Reduces damage from rough uneven conditions, shock & vibration.

10 POLYPROPYLENE CASE
- Reinforced design provides durability to withstand shock and vibration.

11 HEAT SEALED DOUBLE LID
- Prevents contamination, improves strength & reduces water loss.

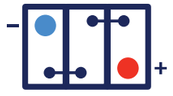
12 CARRY HANDLE
- Ergonomic easy fold-down carry handle.

13 STATE OF CHARGE INDICATOR
- For on the spot diagnosis of battery condition.

14 COLD FORGED TERMINAL
- Improves strength.

Cell Assembly Layout

6 VOLT



A

TWIN TERMINAL

A

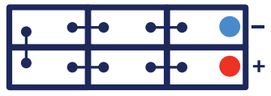
8 VOLT

D

12 VOLT

C

D



E

F

H

12 VOLT TWIN TERMINAL

C

D

Battery Hold-Down

SIDE HOLD-DOWN

END HOLD-DOWN

DIN STYLE SIDE HOLD-DOWN

DIN STYLE END HOLD-DOWN

Terminal Types

STANDARD TERMINAL POST (STD)

FRONT TERMINAL POST (FRONT)

DUAL FIT TERMINAL POST (DF)

JIS PENCIL

TWIN TERMINAL

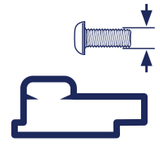
THREADED TERMINAL (TH)

HEX NUT TERMINAL (HN)

LUG TERMINAL (LUG)

W/NUT TERMINAL

M6 / M8 INSERT



6mm / 8mm

Special Features Glossary

AGM	Absorbed Glass Mat	**GM**	Glass Mat Separator	**PL**	Platelock™ Technology
BMS	Battery Management System	**LI**	Lithium Carbon	**PV**	Pressure Valve
BT	Bluetooth Monitoring	**LM**	Low Maintenance	**QC**	Quick Charge
CH	Carry Handles	**LPCM**	Low Power Consumption Mode	**RP**	Recessed Post
CI	State of Charge Indicator	**MF**	Maintenance Free	**VR**	Vibration Resistant
CV	Central Venting	**MIA**	Made in Australia	**XI**	Crystal Plate Technology
EFB	Enhanced Flooded Battery	**MR**	Mud Rack		
FA	Flame Arrestor	**MRF**	Microrib Flexsil Seprator		

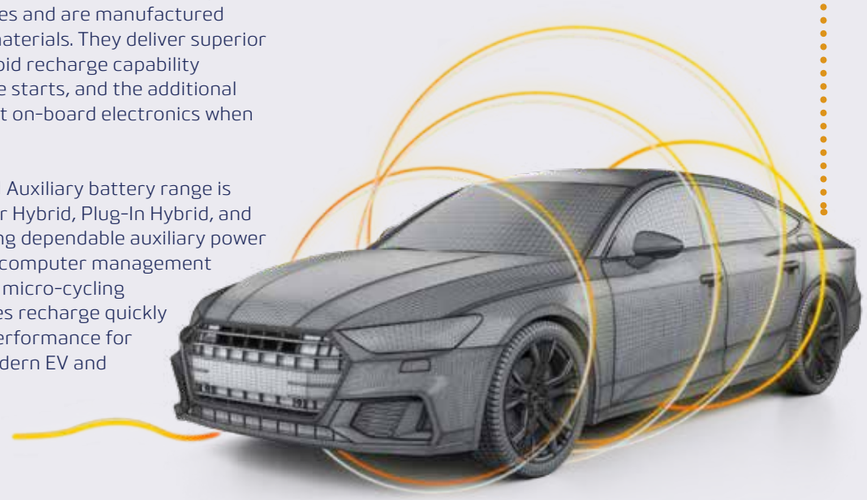
Australian Standard Specifications as per AS 60095

ADVANCED TECHNOLOGY FOR IDLE STOP START & HYBRID VEHICLES

Century ISS Active Stop Start /EV & Hybrid Auxiliary batteries represent the latest in performance for vehicles with Stop Start, Hybrid, and Electric Vehicle (EV) technology. Specially engineered to meet or exceed the demands of Idle Stop Start systems, Hybrids, and EVs, they support improved fuel efficiency, reduced emissions, and reliable power for modern vehicle systems.

Century ISS Active AGM and EFB batteries incorporate innovative design features and are manufactured using high-quality raw materials. They deliver superior cycling performance, rapid recharge capability between frequent engine starts, and the additional power needed to support on-board electronics when the engine is off.

The Century EV & Hybrid Auxiliary battery range is specifically developed for Hybrid, Plug-In Hybrid, and Electric Vehicles - offering dependable auxiliary power for vehicle electrics and computer management systems. With enhanced micro-cycling capability, these batteries recharge quickly and deliver consistent performance for the high demands of modern EV and Hybrid applications.



ISS Active

ISS Active AGM

A range of premium batteries incorporating Absorbed Glass Mat (AGM) technology to deliver exceptional starting power, extreme cycle life and superior micro-cycling capabilities. ISS Active AGM batteries are designed and engineered specifically for vehicles fitted with advanced Stop Start engine management, regenerative braking and energy recovery systems.

- ✓ Perfect for replacing original equipment (OE) batteries
- ✓ Superior charge acceptance for faster recharge between repeated engine starts
- ✓ 3x higher cycling endurance
- ✓ Low self-discharge rate for longer shelf life

EXCEPTIONAL STARTING POWER

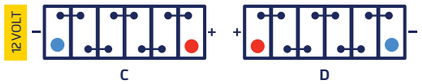
MAXIMUM SERVICE LIFE

SUPERIOR STOP START CYCLING PERFORMANCE

SUPERIOR RECHARGE EFFICIENCY

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
ISS ACTIVE AGM^															
618118	DIN44LH AGM	36	12	520	80	50	206	175	190	190	C	15.50	STD	SIDE/END	AGM, CH, FA, MF, MR, PL, VR
618111	DIN53LH AGM	36	12	640	100	60	242	175	190	190	C	17.60	STD	SIDE/END	AGM, CH, FA, MF, MR, PL, VR
618113	DIN65LH AGM	36	12	760	120	70	274	175	190	190	C	19.30	STD	SIDE/END	AGM, CH, FA, MF, MR, PL, VR
618114	DIN75LH AGM	36	12	800	140	80	316	175	190	190	C	23.00	STD	SIDE/END	AGM, CH, FA, MF, MR, PL, VR
618119	DIN75RH AGM	36	12	800	140	80	316	175	190	190	D	23.00	STD	SIDE/END	AGM, CH, FA, MF, MR, PL, VR
618115	DIN85LH AGM	36	12	850	160	95	353	175	190	190	C	27.50	STD	SIDE/END	AGM, CH, FA, MF, MR, PL, VR
618117	DIN110LHAGM	36	12	950	190	105	393	175	190	190	C	30.50	STD	SIDE/ END	AGM, CH, FA, MF, MR, PL, VR

†NOTE - ISS AGM Batteries are suitable for under bonnet fitment only when OE battery is an AGM battery.



†Conditions apply. Refer to individual warranty statements attached to each battery.

ISS Active

ISS Active EFB

A range of original equipment (OE) Enhanced Flooded Batteries (EFB) which are used and endorsed by some of the world's leading car brands. The ISS Active EFB range is designed to help reduce fuel consumption and CO_2 emissions in vehicles fitted with Idle Stop Start systems.

- ✓ Direct OE replacement - perfect for replacing your vehicle's original equipment battery*
- ✓ Lithium carbon additive for up to 50% faster recharging and 2x higher cycling performance
- ✓ Thicker and stronger internal components for increased shock and vibration resistance
- ✓ Recommended upgrade for standard vehicles subjected to repeated short journeys

ISS Active EFB Maintenance Free

A range of Enhanced Flooded Batteries (EFB) designed to aid the reduction of CO_2 emissions and fuel consumption in vehicles fitted with Idle Stop Start systems. They are also a suitable upgrade for standard vehicles that make regular short journeys due to superior recharge efficiency and micro cycling capabilities.

- ✓ Superior starting power to handle repeated engine restarts
- ✓ Improved recharge efficiency and cycling performance
- ✓ Sealed maintenance free design
- ✓ Suitable upgrade for standard vehicles subjected to repeated short journeys

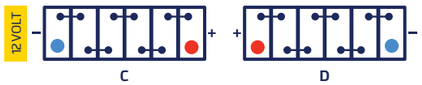
EV & Hybrid

A range of original equipment (OE) EV & Hybrid Auxiliary batteries endorsed by some of the world's leading car brands. Century EV & Hybrid Auxiliary batteries provide superior cycling performance and dependable auxiliary power for EV & hybrid vehicles. They're designed to meet and exceed the unique requirements of vehicles with auxiliary battery systems.

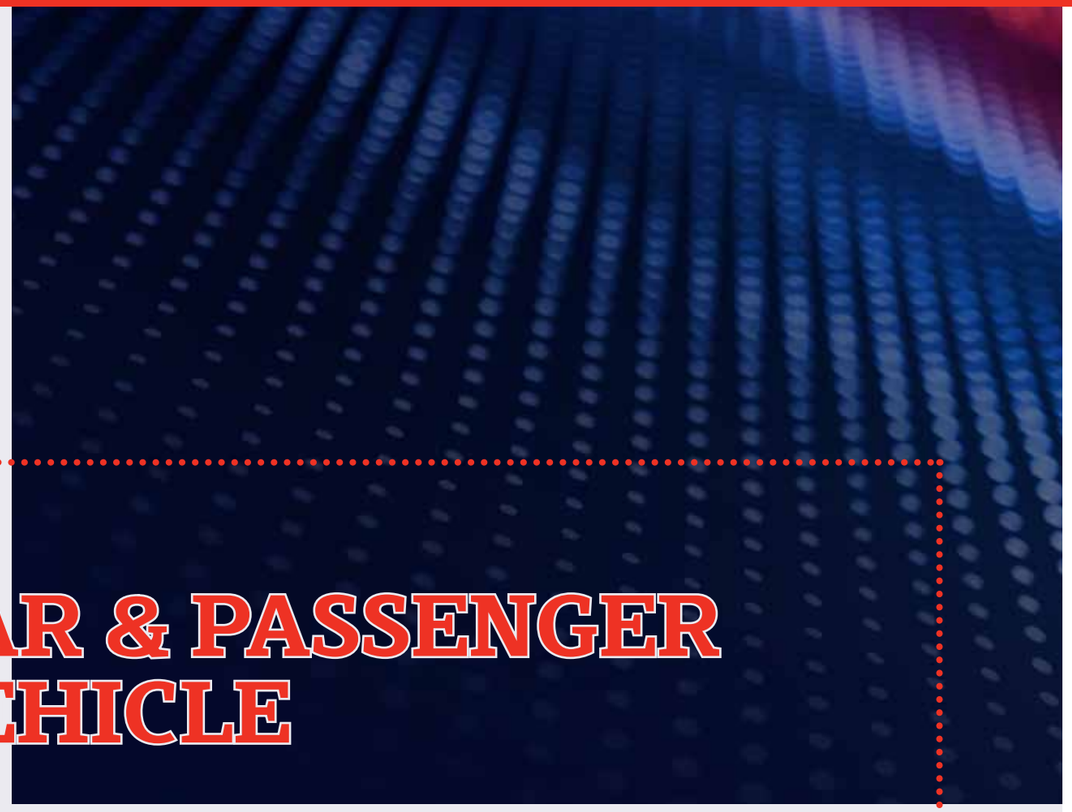
- ✓ Direct OE replacement - perfect for replacing your vehicle's original equipment battery*
- ✓ Optimum charge acceptance for fast recharging between repeated engine starts
- ✓ Superior cycling endurance and longer service life
- ✓ Maintenance free design for maximum safety

*Selected vehicles only.

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
ISS ACTIVE EFB															
606101	Q85	36	12	650	116	67	232	173	200	225	C	17.30	STD	-	EFB, LI, LM
606102	S95	36	12	760	127	68	260	173	200	225	C	19.40	STD	-	EFB, LI, LM
606100	T110	36	12	810	155	86	303	173	200	225	C	22.20	STD	-	EFB, LI, LM
ISS ACTIVE EFB MF															
616103	N55 MF	24	12	460	80	55	236	127	199	220	C	13.00	JIS PENCIL	-	CH, CI, EFB, FA, MF
616110	N55R MF	24	12	460	80	55	236	127	199	220	D	13.00	JIS PENCIL		CH, CI, EFB, FA, MF
616101	Q85 MF	24	12	550	110	65	230	171	202	222	C	17.00	STD	-	CH, CI, EFB, FA, MF
616104	Q85R MF	24	12	550	110	65	230	171	202	222	D	17.00	STD	-	CH, CI, EFB, FA, MF
616102	S95 MF	24	12	680	130	70	258	172	199	220	C	19.90	STD	-	CH, CI, EFB, FA, MF
616100	T110 MF	24	12	760	150	95	302	170	200	222	C	22.50	STD	-	CH, CI, EFB, FA, MF
616105	DIN53LH EFB	24	12	560	100	60	242	175	190	190	C	15.80	STD	SIDE/END	CH, CI, EFB, FA, MF, RP
606106	DIN65L EFB	24	12	650	110	65	275	175	175	175	C	16.80	STD	SIDE/END	CH, CI, EFB, FA, MF, RP
616106	DIN65LH EFB	24	12	720	130	75	275	175	190	190	C	19.60	STD	SIDE/END	CH, CI, EFB, FA, MF, RP
606107	DIN75L EFB	24	12	730	135	75	313	175	175	175	C	19.10	STD	SIDE/END	CH, CI, EFB, FA, MF, RP
616107	DIN75LH EFB	24	12	730	145	80	313	175	190	190	C	21.20	STD	SIDE/END	CH, CI, EFB, FA, MF, RP
EV & HYBRID AUXILIARY															
609100	LN0 MF	24	12	280	55	35	174	174	190	190	C	9.70	STD	SIDE/END	CH, CI, MF
616108	LN1 MF	24	12	438	91	52	206	174	190	190	C	12.50	STD	SIDE/END	CH, CI, CV, MF
606109	LN2 EFB	24	12	699	117	67	241	174	190	190	C	17.00	STD	SIDE/END	CH, CI, EFB, MF
618121	S34B20L-A	24	12	272	47	35	195	127	199	227	C	10.50	JIS PENCIL	-	AGM, CH, CV, FA, MF, PV
601129	S34B20R	24	12	270	47	27	195	127	195	227	D	10.50	JIS PENCIL	-	AGM, CH, CV, FA, MF, PV
601133	34B17L	24	12	280	27	27	167	127	215	235	C	10.20	JIS PENCIL	-	CH, CV, FA, LM, PV
605140	38B20L MF	24	12	335	54	36	202	135	201	222	C	9.90	STD	SIDE/END	CH, CV, FA, MF, MR
618120	S46B24L(S)	24	12	325	68	45	236	128	200	227	C	13.50	STD	-	AGM, CV, FA, MF, PV
601130	S46B24R	24	12	325	68	45	236	128	200	227	D	13.50	JIS PENCIL	-	AGM, CH, CV, FA, MF, PV
601131	S46A24L	24	12	325	68	45	238	128	170	195	C	12.90	STD	-	AGM, CH, CV, FA, MF, PV
618106	S55D23R	24	12	550	85	50	220	170	195	220	D	15.10	STD	-	AGM, CH, CV, FA, MF, PV



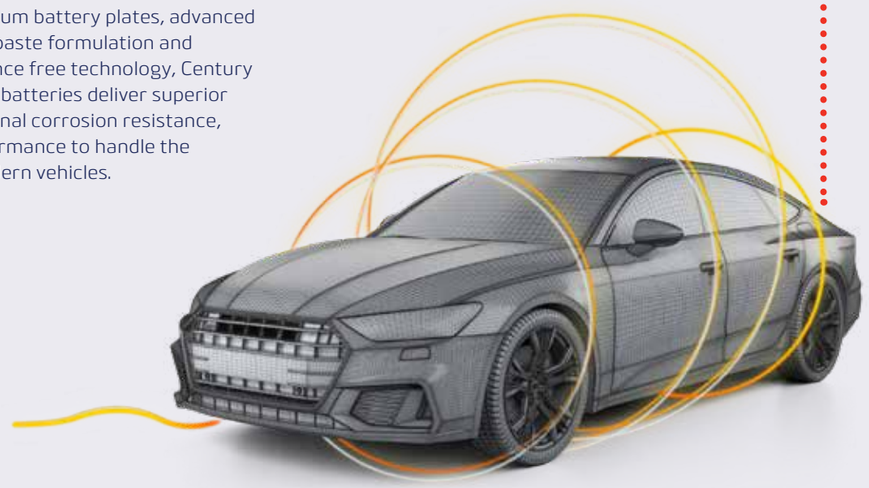
†Conditions apply. Refer to individual warranty statements attached to each battery.



CAR & PASSENGER VEHICLE

Century Car & Passenger vehicle batteries are built tough to provide the ultimate in battery performance and reliability. Featuring internal components which are designed to suit New Zealand conditions. These batteries utilise unique design features and industry leading technologies to combat the causes of battery failure. Century Ultra Hi Performance and Hi Performance batteries deliver reliability, longer life and superior performance.

Manufactured with Calcium battery plates, advanced grid designs, optimised paste formulation and revolutionary maintenance free technology, Century Car & Passenger vehicle batteries deliver superior starting power, exceptional corrosion resistance, longer life and the performance to handle the demands of today's modern vehicles.



Car & Passenger Vehicle

Ultra Hi Performance

Century Ultra Hi Performance batteries are designed and built to suit New Zealand conditions, providing the ultimate in battery performance. Suitable for both old and new vehicles with higher power demands, Century Ultra Hi Performance batteries are engineered to exceed leading vehicle manufacturer's standards for quality and performance, delivering exceptional starting power, maximum service life and extra power for vehicle electrics.

- Suitable for both old and new vehicles with high power demands
- Suitable replacement for original equipment (OE) batteries
- Designed to suit New Zealand conditions
- Maximum service life with a sealed maintenance free design for reduced water loss

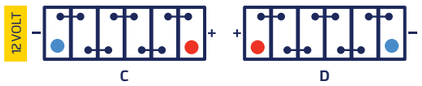
EXCEPTIONAL STARTING POWER

MAXIMUM SERVICE LIFE

EXTRA POWER FOR VEHICLE ELECTRICS

DESIGNED FOR NEW ZEALAND CONDITIONS

ITEM ID	BATTERY TYPE	WARRANTY[1]	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
ULTRA HI PERFORMANCE															
605122	50D20L MF	40	12	450	85	50	202	173	200	225	C	13.50	STD	SIDE	CH, CI, FA, MF, MR, PL, VR
605123	75D23L MF	40	12	550	105	65	232	173	202	225	C	15.70	STD	-	CH, CI, CV, FA, MF, MR, PL, VR
605124	75D23R MF	40	12	550	105	65	232	173	202	225	D	15.70	STD	-	CH, CI, CV, FA, MF, MR, PL, VR
605125	67EF MF	40	12	530	86	52	231	171	184	205	D	13.70	STD	-	CH, CI, FA, MF, MR, PL, VR
605126	67 MF	40	12	530	86	52	235	174	184	205	D	13.70	STD	SIDE/END	CH, CI, FA, MF, MR, PL, VR
605127	68EB MF	40	12	530	86	52	231	171	184	205	C	13.70	DF	-	CH, CI, FA, MF, MR, PL, VR
605128	68 MF	40	12	530	86	52	235	174	184	205	C	13.70	STD	SIDE/END	CH, CI, FA, MF, MR, PL, VR
605129	75SX MF	40	12	550	113	60	230	179	180	180	D	14.80	FRONT	SIDE	CH, CI, CV, FA, MF
605130	N65DX MF	40	12	750	140	80	305	190	170	190	D	18.20	STD	SIDE	CH, CI, CV, FA, MF
605131	NS40ZLBX MF	40	12	360	63	38	195	136	200	220	C	10.00	JIS PENCIL	SIDE	CH, CI, FA, MF, MR, PL, VR
605132	NS40ZLX MF	40	12	360	63	38	195	126	200	220	C	10.00	JIS PENCIL	-	CH, CI, FA, MF, MR, PL, VR
605133	NS40ZLSX MF	40	12	360	63	38	195	126	200	220	C	10.00	STD	-	CH, CI, FA, MF, MR, PL, VR
605134	NS40ZX MF	40	12	360	63	38	195	126	200	220	D	10.00	JIS PENCIL	-	CH, CI, FA, MF, MR, PL, VR
605135	NS40ZSX MF	40	12	360	63	38	195	126	200	220	D	10.00	STD	-	CH, CI, FA, MF, MR, PL, VR
605136	NS60LX MF	40	12	430	76	45	235	129	199	219	C	11.90	JIS PENCIL	-	CH, CI, FA, MF, MR, PL, VR
605137	NS60LSX MF	40	12	430	76	45	235	129	199	219	C	11.90	STD	-	CH, CI, FA, MF, MR, PL, VR
605138	NS60X MF	40	12	430	76	45	235	129	199	219	D	11.90	JIS PENCIL	-	CH, CI, FA, MF, MR, PL, VR
605139	NS60SX MF	40	12	430	76	45	235	129	199	219	D	11.90	STD	-	CH, CI, FA, MF, MR, PL, VR



[1]Conditions apply. Refer to individual warranty statements attached to each battery.

Car & Passenger Vehicle

Ultra Hi Performance DIN

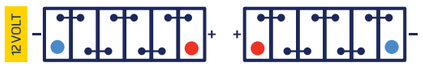
Century Ultra Hi Performance DIN batteries are designed and built to suit New Zealand conditions, providing the ultimate in battery performance. Suitable for both old and new vehicles with higher power demands, Century Ultra Hi Performance batteries are engineered to exceed leading vehicle manufacturer's standards for quality and performance, delivering exceptional starting power, maximum service life and extra power for vehicle electrics.

- Suitable for both old and new vehicles with high power demands
- Suitable replacement for original equipment (OE) batteries
- Designed to suit New Zealand conditions
- Maximum service life with a sealed maintenance free design for reduced water loss

EXCEPTIONAL STARTING POWER · MAXIMUM SERVICE LIFE · EXTRA POWER FOR VEHICLE ELECTRICS · DESIGNED FOR NEW ZEALAND CONDITIONS

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
ULTRA HI PERFORMANCE DIN															
615120	DIN44LX MF	40	12	420	71	43	208	175	175	175	C	11.50	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615134	DIN44LHX MF	40	12	420	85	50	208	175	175	190	C	11.50	STD	SIDE/ END	CH, CI, FA, MF, MR, PL, RP, VR
615135	DIN44RHX MF	40	12	420	85	50	208	175	175	190	D	11.50	STD	SIDE/ END	CH, CI, FA, MF, MR, PL, RP, VR
615121	DIN53LX MF	40	12	500	94	54	245	175	175	175	C	13.50	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615114	DIN53ZLX MF	40	12	600	105	60	242	175	175	175	C	14.40	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615122	DIN53RX MF	40	12	500	94	54	245	175	175	175	D	13.50	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615124	DIN53LHX MF	40	12	500	95	55	242	174	190	190	C	14.00	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615125	DIN65LX MF	40	12	640	110	63	277	175	175	175	C	15.50	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615126	DIN65LHX MF	40	12	710	140	78	277	174	190	190	C	17.40	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615127	DIN65RHX MF	40	12	710	140	78	277	174	190	190	D	17.40	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615131	DIN75LX MF	40	12	730	135	80	313	175	175	175	C	18.70	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615128	DIN75LHX MF	40	12	830	170	95	313	175	190	190	C	20.70	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615129	DIN75RHX MF	40	12	830	170	95	313	175	190	190	D	20.20	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615130	DIN85LX MF	40	12	780	150	85	354	175	175	175	C	20.00	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615132	DIN85LHX MF	40	12	860	170	100	353	175	190	190	C	23.00	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
615133	DIN110LHX MF	40	12	920	195	110	395	175	190	190	C	27.00	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR

12 VOLT



†Conditions apply. Refer to individual warranty statements attached to each battery.

Hi Performance

Century Hi Performance batteries are designed and manufactured to deliver longer life and performance to suit New Zealand conditions, providing the dependable power and performance. Suitable for both old and new vehicles with standard power demands, Century Hi Performance batteries are engineered to meet leading vehicle manufacturer's standards for quality and performance, delivering superior starting power, longer service life and power to run vehicle electrics.

- Superior starting power
- Suitable for both old and new vehicles with standard power demands
- Designed to suit New Zealand conditions
- Longer service life with a sealed maintenance free design for reduced water loss

SUPERIOR STARTING POWER · LONGER SERVICE LIFE · POWER FOR VEHICLE ELECTRICS · DESIGNED FOR NEW ZEALAND CONDITIONS

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
HI PERFORMANCE															
604108	55D23L MF	30	12	500	100	60	232	173	204	225	C	15.20	STD	-	CH, CI, CV, FA, MF, PL, VR
604111	57 MF	30	12	500	79	47	240	174	180	205	D	13.20	STD	SIDE/END	CH, CI, FA, MF, MR, PL, VR
604112	58 MF	30	12	500	79	47	240	174	180	205	C	13.20	STD	SIDE/END	CH, CI, FA, MF, MR, PL, VR
604100	NS40ZL MF	30	12	330	57	34	187	127	202	226	C	8.90	JIS PENCIL	-	CH, CI, FA, MF, MR, PL, VR
604102	NS40ZLS MF	30	12	330	57	34	187	127	202	226	C	8.90	STD	-	CH, CI, FA, MF, MR, PL, VR
604101	NS40Z MF	30	12	330	57	34	187	127	202	226	D	8.90	JIS PENCIL	-	CH, CI, FA, MF, MR, PL, VR
604103	NS40ZS MF	30	12	330	57	34	187	127	202	226	D	8.90	STD	-	CH, CI, FA, MF, MR, PL, VR
604104	NS60L MF	30	12	400	70	42	238	129	201	225	C	11.50	JIS PENCIL	-	CH, CI, FA, MF, MR, PL, VR
604106	NS60LS MF	30	12	400	70	42	238	129	201	225	C	11.50	STD	-	CH, CI, FA, MF, MR, PL, VR
604105	NS60 MF	30	12	400	70	42	238	129	201	225	D	11.50	JIS PENCIL	-	CH, CI, FA, MF, MR, PL, VR
604107	NS60S MF	30	12	400	70	42	238	129	201	225	D	11.50	STD	-	CH, CI, FA, MF, MR, PL, VR

12 VOLT

†Conditions apply. Refer to individual warranty statements attached to each battery.

Car & Passenger Vehicle

Hi Performance DIN

Century Hi Performance batteries are designed and manufactured to deliver longer life and performance to suit New Zealand conditions, providing the dependable power and performance. Suitable for both old and new vehicles with standard power demands, Century Hi Performance batteries are engineered to meet leading vehicle manufacturer's standards for quality and performance, delivering superior starting power, longer service life and power to run vehicle electrics.

- Superior starting power
- Suitable for both old and new vehicles with standard power demands
- Designed to suit New Zealand conditions
- Longer service life with a sealed maintenance free design for reduced water loss

SUPERIOR STARTING POWER

LONGER SERVICE LIFE

POWER FOR VEHICLE ELECTRICS

DESIGNED FOR NEW ZEALAND CONDITIONS

ITEM ID	BATTERY TYPE	WARRANTY[1]	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
HI PERFORMANCE DIN															
614100	DIN53L MF	30	12	470	86	52	245	175	175	175	C	13.00	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
614101	DIN65L MF	30	12	560	102	61	277	175	175	175	C	15.00	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
614104	DIN65LH MF	30	12	580	120	72	277	175	190	190	C	16.50	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
614102	DIN75L MF	30	12	690	133	80	315	175	175	175	C	17.50	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR
614105	DIN75LH MF	30	12	720	150	85	315	175	190	190	C	19.90	STD	SIDE/END	CH, CI, FA, MF, MR, PL, RP, VR

12 VOLT

C

[1]Conditions apply. Refer to individual warranty statements attached to each battery.

Hi Performance Maintainable

Century Hi Performance Maintainable batteries feature a mix of both Expanded and Hybrid grid designs, using Calcium and Antimonial technologies. Hard wearing components reduce corrosion, limit gassing and minimise water loss, ensuring dependable power when it's needed the most.

- Superior starting power
- For cars with standard accessories
- Specialist plate design to reduce self-discharge and water loss
- Maintainable design for maximum control over battery life

SUPERIOR STARTING POWER

LONGER SERVICE LIFE

POWER FOR VEHICLE ELECTRICS

DESIGNED FOR NEW ZEALAND CONDITIONS

ITEM ID	BATTERY TYPE	WARRANTY[1]	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
HI PERFORMANCE MAINTAINABLE															
601106	03	24	6	270	80	65	184	167	163	186	A	10.50	STD	SIDE	LM, MR
601100	41	30	12	310	50	35	230	133	180	199	D	10.73	STD	END	LM, MR
601101	43	30	12	310	50	35	230	133	180	199	C	10.73	DF	END	LM, MR

6 VOLT

A

12 VOLT

C

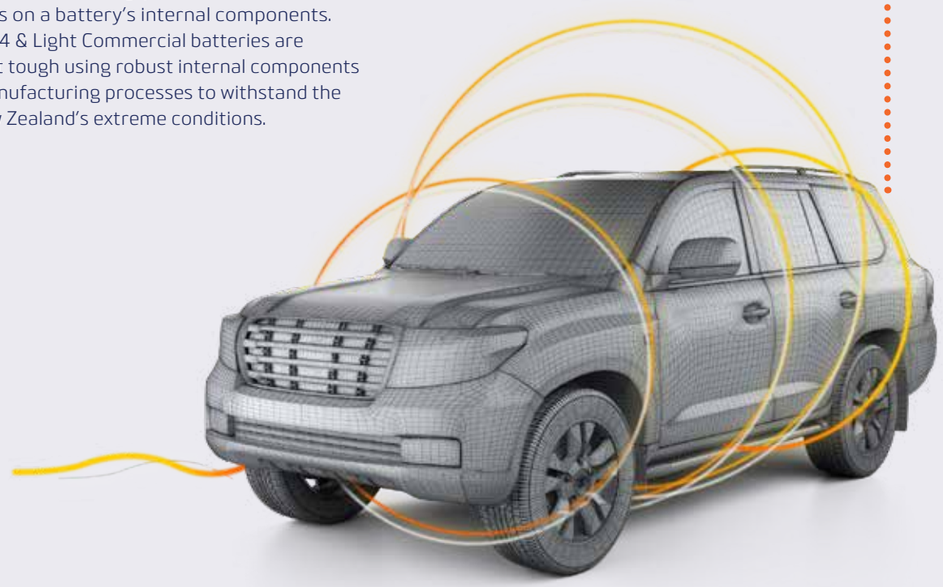
D

[1]Conditions apply. Refer to individual warranty statements attached to each battery.

SUV, 4x4 & LIGHT COMMERCIAL

Whether venturing into the high country, traversing sand dunes or on an alpine adventure, it's important to have the right equipment, and that includes the battery.

Excessive under bonnet temperatures, continuous vibration, repeated impact from rough uneven roads and the demands of power hungry accessories all place extreme demands on a battery's internal components. Century's SUV, 4x4 & Light Commercial batteries are designed and built tough using robust internal components and advanced manufacturing processes to withstand the challenges of New Zealand's extreme conditions.



SUV, 4x4 & Light Commercial

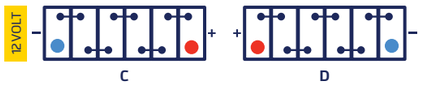
Ultra Hi Performance

Century Ultra Hi Performance batteries are designed for more than just starting power, manufactured with thicker and more durable components that are able to sustain constant current loads.

- Calcium technology for superior starting power
- Platelock™ technology providing shock and vibration resistance
- Enhanced active material reduces water loss
- Superior strength and durability
- Maintainable & maintenance free designs

EXCEPTIONAL STARTING POWER · **MAXIMUM SERVICE LIFE** · **EXTRA STRENGTH & ENDURANCE** · **ENHANCED VIBRATION RESISTANCE** · **DESIGNED FOR NEW ZEALAND CONDITIONS**

ITEM ID	BATTERY TYPE	WARRANTY[1]	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
ULTRA HI PERFORMANCE															
625136	NS70X MF	30*/24	12	680	140	80	260	174	202	225	D	18.50	STD	SIDE	CH, CI, CV, FA, MF, MR, PL, VR
625135	NS70LX MF	30*/24	12	680	140	80	260	174	202	225	C	18.50	STD	SIDE	CH, CI, CV, FA, MF, MR, PL, VR
625129	N70ZZX MF	30*/24	12	760	165	90	304	172	202	225	D	21.00	STD	SIDE	CH, CI, CV, FA, MF, MR, PL, VR
625128	N70ZZLX MF	30*/24	12	760	165	90	304	172	202	225	C	21.00	STD	SIDE	CH, CI, CV, FA, MF, MR, PL, VR
ULTRA HI PERFORMANCE SEVERE SERVICE															
622102	N70ZZHX	24	12	730	180	95	305	171	202	225	D	23.90	STD	SIDE	CH, CI, GM, LM, MIA, MR, PL, VR
622103	N70ZZLHX	24	12	730	180	95	305	171	202	225	C	23.90	STD	SIDE	CH, CI, GM, LM, MIA, MR, PL, VR



[1]Conditions apply. Refer to individual warranty statements attached to each battery.

*30 months for private use, 24 months for commercial use.

SUV, 4x4 & Light Commercial

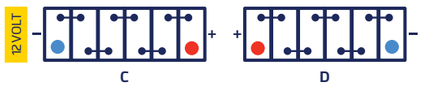
Hi Performance

Century Hi Performance batteries feature hard wearing internal components to reduce corrosion and enhance vibration resistance, while producing dependable power and performance.

- Calcium technology for dependable starting power
- Specialist plate design to reduce self-discharge and water loss
- Platelock™ technology providing shock and vibration resistance
- Maintenance free design

SUPERIOR STARTING POWER · LONGER SERVICE LIFE · ADDED STRENGTH & ENDURANCE · IMPROVED VIBRATION RESISTANCE · DESIGNED FOR NEW ZEALAND CONDITIONS

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
HI PERFORMANCE															
624101	NS70 MF	24*/20	12	600	130	70	260	174	202	225	D	17.40	STD	SIDE	CH, CI, CV, FA, MF, MR, PL, VR
624100	NS70L MF	24*/20	12	600	130	70	260	174	202	225	C	17.40	STD	SIDE	CH, CI, CV, FA, MF, MR, PL, VR
624106	N70ZZ MF	24*/20	12	680	145	80	304	172	202	225	D	20.00	STD	-	CH, CI, CV, FA, MF, MR, PL, VR
624105	N70ZZL MF	24*/20	12	680	145	80	304	172	202	225	C	20.00	STD	-	CH, CI, CV, FA, MF, MR, PL, VR



†Conditions apply. Refer to individual warranty statements attached to each battery.
*24 months for private use, 20 months for commercial use.

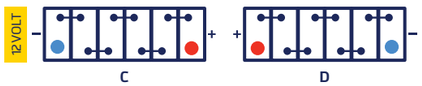
Hi Performance Maintainable

Century Hi Performance maintainable batteries feature hard wearing components to reduce corrosion, limit gassing and minimise water loss, ensuring dependable power when it's needed the most. These batteries utilise a maintainable design to help maximise battery life under harsh conditions.

- Calcium technology for dependable starting power
- Specialist plate design to reduce self-discharge and water loss
- Superior starting power
- Maintainable design for maximum control over battery life

SUPERIOR STARTING POWER · LONGER SERVICE LIFE · ADDED STRENGTH & ENDURANCE · IMPROVED VIBRATION RESISTANCE · DESIGNED FOR NEW ZEALAND CONDITIONS

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
HI PERFORMANCE MAINTAINABL															
621113	NS70	24*/20	12	580	120	70	260	174	202	225	D	17.90	STD	SIDE	CH, FA, LM, MR
621114	NS70L	24*/20	12	580	120	70	260	174	202	225	C	17.90	STD	SIDE	CH, FA, LM, MR
621111	N70Z	24*/20	12	620	130	75	304	172	202	225	D	19.50	STD	-	CH, FA, LM, MR
621112	N70ZL	24*/20	12	620	130	75	304	172	202	225	C	19.50	STD	-	CH, FA, LM, MR

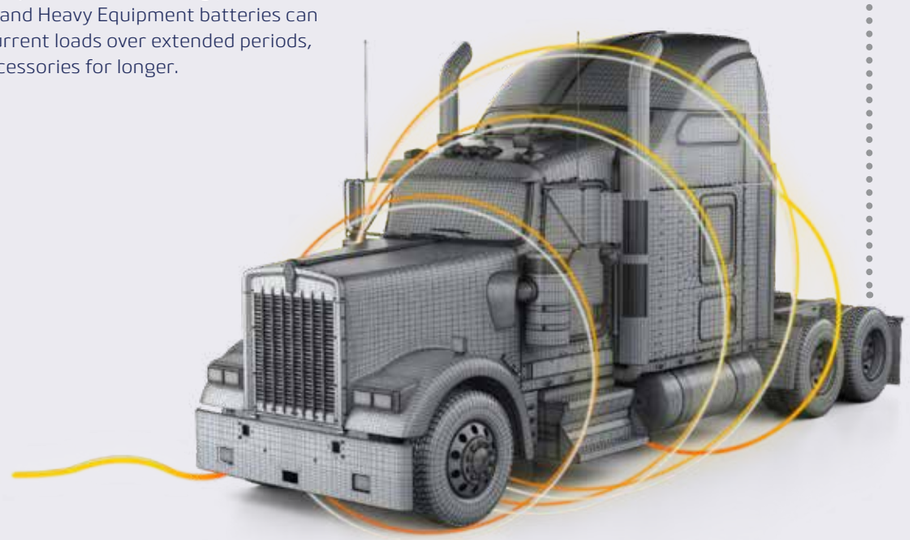


†Conditions apply. Refer to individual warranty statements attached to each battery.
*24 months for private use, 20 months for commercial use.

TRUCK, BUS & HEAVY EQUIPMENT

Century Truck, Bus and Heavy Equipment batteries represent the latest in performance and reliability for haulage and heavy commercial vehicles. They deliver what drivers and fleet managers really want – longer life, superior reliability, and less down time.

Delivering more than just superior starting power, Century Truck, Bus and Heavy Equipment batteries can sustain constant current loads over extended periods, to run on-board accessories for longer.



Truck, Bus & Heavy Equipment

Extra Heavy Duty EFB

Century's EFB batteries are Extra Heavy Duty EFB Sealed Maintenance Free batteries designed for modern commercial vehicles with extra demand for both starting power and on-board electrical power supplies. They are suitable for heavy duty vehicles in both long distance and local transport, ideal for frequent overnight stays and vehicles with extra equipment such as tail lift/lift platforms.

- Superior starting power for short haul off-highway vehicles
- Added strength and endurance in commercial conditions
- Longer service life. Calcium technology for lower self-discharge and reduced water loss
- Platelock™ technology for improved vibration and impact resistance

EXCEPTIONAL STARTING POWER · IMPROVED RECHARGE EFFICIENCY · ENHANCED CYCLING PERFORMANCE · EXTREME VIBRATION RESISTANCE

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
EXTRA HEAVY DUTY EFB															
629100	EN180L EFB	24	12	1100	370	185	511	222	193	215	E	47.5	STD	-	CH, CI, EFB, FA, MF, MR, PL, VR
629101	EN230L EFB	24	12	1200	490	230	516	272	214	236	E	58.5	STD	-	CH, CI, EFB, FA, MF, MR, PL, VR

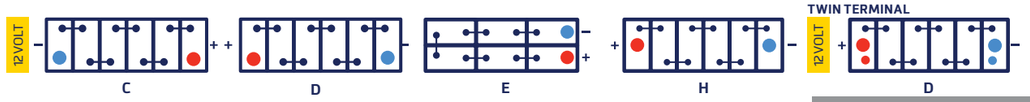
Heavy Duty AGM

Incorporating Absorbed Glass Mat (AGM) technology and robust positive plates that combine to deliver superior starting power, extreme cycle life and discharge capability.

- AGM technology for enhanced endurance and vibration resistance
- Superior strength and durability for commercial conditions
- Specialist plate design to reduce self-discharge and water loss
- Semi-cycling performance for on-board accessories

EXCEPTIONAL STARTING POWER · MAXIMUM SERVICE LIFE · SUPERIOR STRENGTH & ENDURANCE · EXTREME VIBRATION RESISTANCE

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
HEAVY DUTY AGM															
618100	AXD26R	24	12	750	140	75	260	172	200	220	D	19.70	STD	SIDE/END	AGM, CH, FA, MF, PV, VR
628103	AXD26	24	12	750	140	75	260	172	200	220	C	19.70	STD	SIDE/END	AGM, CH, FA, MF, PV, VR
628101	AXD31-950	24	12	950	200	100	332	172	210	231	D	27.40	TWIN	-	AGM, CH,CV, FA, MF, PV, VR
628102	AXD31-950S	24	12	950	200	100	332	172	210	231	H	27.40	TH	-	AGM, CH,CV, FA, MF, PV, VR



†Conditions apply. Refer to individual warranty statements attached to each battery.

Truck, Bus & Heavy Equipment

Heavy Duty

Century Heavy Duty batteries are built tough for New Zealand's harsh working conditions. Incorporating industry leading design features, these maintenance free batteries provide exceptional performance & longer life in heavy duty applications.

- Calcium technology for reduced water loss and lower self-discharge
- Improved strength and durability for commercial conditions
- Platelock™ technology providing shock and vibration resistance

EXCEPTIONAL STARTING POWER

MAXIMUM SERVICE LIFE

EXTRA STRENGTH & ENDURANCE

ENHANCED VIBRATION RESISTANCE

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
HEAVY DUTY															
625121	86 MF	24	12	800	180	90	330	172	218	242	H	23.20	STD	-	CH, CI, CV, FA, MF, MR, PL, VR
625120	86Z MF	24	12	1000	200	100	330	172	218	242	H	24.80	STD	-	CH, CI, CV, FA, MF, MR, PL, VR
626105	DIN135L MF	24	12	900	250	135	512	174	183	207	E	34.00	STD	SIDE/END	CH, CI, MF, PL, VR
625114	N100L MF	24	12	730	180	100	405	175	212	235	C	25.10	STD	-	CH, CI, FA, MF, MR, PL, VR
625102	N100 MF	24	12	730	180	100	410	175	212	235	D	25.10	STD	-	CH, CI, FA, MF, MR, PL, VR
625103	N120 MF	24	12	850	235	125	505	183	212	235	F	32.10	STD	-	CH, CI, FA, MF, MR, PL, VR
625104	N150 MF	24	12	1000	300	155	508	222	213	236	F	38.40	STD	-	CH, CI, FA, MF, MR, PL, VR
625105	N200 MF	24	12	1150	400	200	522	279	220	244	F	51.50	STD	-	CH, CI, FA, MF, MR, PL, VR

†Conditions apply. Refer to individual warranty statements attached to each battery.

Heavy Duty Maintainable

Century Heavy Duty maintainable batteries are ideal for short haul/hiab/tail lift applications. Made of thicker battery plates for increased durability and battery life, these batteries feature a low maintenance design for maximum control over battery life.

- Reliable starting power
- Improved strength and durability for commercial conditions
- Platelock™ technology providing shock and vibration resistance^

SUPERIOR STARTING POWER

LONGER SERVICE LIFE

EXTRA STRENGTH & ENDURANCE

IMPROVED VIBRATION RESISTANCE

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
HEAVY DUTY MAINTAINABLE															
621100	23	24	6	750	245	120	259	172	220	220	A	18.50	STD	-	CH, LM
621101	26	24	6	850	294	150	304	171	201	222	A	21.35	STD	-	CH, LM, PL, VR
621104	86	24	12	755	180	92	348	170	210	238	C	25.60	STD	SIDE	CH, LM, MR, PL, VR
621105	87	24	12	755	180	92	348	170	210	238	D	25.60	STD	SIDE	CH, LM, MR, PL, VR
621103	94	24	12	890	255	135	519	206	181	203	E	35.60	STD	-	CH, CV, LM, PL, VR
621137	N100	24	12	635	192	111	407	175	210	231	D	25.00	STD	-	CV, LM, PL, VR
621138	N120	24	12	860	266	129	506	183	210	240	F	35.50	STD	-	CV, LM, PL, VR
621139	N150	24	12	1000	320	153	506	220	210	240	F	41.90	STD	-	CV, LM, PL, VR
621140	N200	24	12	1300	415	195	519	277	218	248	F	56.90	STD	-	CV, LM, PL, VR

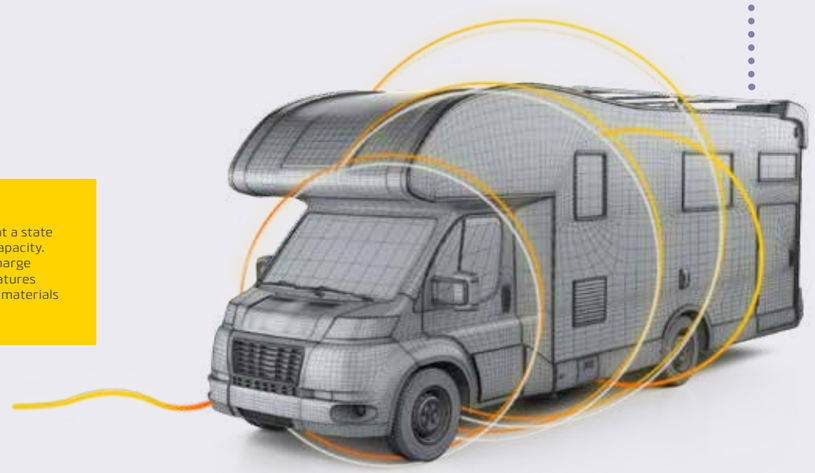
†Conditions apply. Refer to individual warranty statements attached to each battery. ^Excludes 23.

LITHIUM PRO

Century Lithium Pro Batteries represent the latest in performance and reliability for non-cranking recreational applications. Lithium Pro batteries have been developed and tested above industry standards to ensure the highest safety and performance.

Their superior energy capacity, operating temperature range and lightweight design makes Century Lithium Pro batteries ideal for use in a range of applications where longer life, faster recharge and dependable power is required.

SEASONAL USE
For seasonal use, the battery should be stored at a state of charge of between 40%-60% of its nominal capacity. Check battery every 4 to 6 months to see if recharge is required, more frequently in ambient temperatures exceeding 35°C. Keep area free from flammable materials and do not store in direct sunlight.



Lithium Pro

Century Lithium Pro batteries are designed to provide long lasting power in recreational deep cycle applications. Capable of delivering over 3000 cycles, 50% more usable energy and up to 10X faster recharging* they are suitable as a drop-in replacement for standard 12V Flooded or AGM Deep Cycle batteries^.

The superior energy capacity, operating temperature range and lightweight design makes Century Lithium Pro batteries ideal for use in a range of applications where longer life, faster recharge and dependable power is required.

- 3000+ Cycles and 10x More Cycle Life⁰
- 10x Faster Recharge for less downtime & recovery from deep discharge
- Integrated Battery Management System provides safety and protection against incorrect charging, short circuit and over discharge
- Bluetooth monitoring system
- Low Power Consumption Mode reduces power consumption when the device is not in use, helping the battery last longer

MOTORHOMES & RV'S# | BOATS & YACHTS# | CAMPER TRAILERS & CARAVANS | PORTABLE SOLAR APPLICATIONS# | RECREATIONAL & MOBILITY VEHICLES | 4X4 DUAL BATTERY SYSTEMS#

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
LITHIUM PRO													
117103	C12-100XLi+	60	12	100	307	172	212	217	D	12.60	M8 INSERT	-	BMS, BT, LPCM, QC, VR
117104	C12-150XLi+	60	12	150	307	172	212	217	D	16.50	M8 INSERT	-	BMS, BT, LPCM, QC, VR

Century Lithium Pro batteries have been tested in accordance to industry standards relating to performance and safety. We have also invested in additional certification and testing to ensure that the battery conforms to the highest quality in relation to design, performance and safety.

Performance Tests

- Charge-Discharge ageing (IEC61960)
- Overcharge (UN38.3, IEC62619)
- Over Discharge (IEC62619)
- Thermal Resistance (UN38.3, IEC62619)
- V3 Vibration Resistance (UN38.3, IEC60095)
- Thermal Shock (UN38.3, IEC62619)

Safety Tests

- Nail Penetration (cell supplier)
- Impact crush/drop (UN38.3, IEC62619)
- Short circuit resistance (UN38.3, IEC62619)
- Transport of Dangerous Goods (UN38.3)
- IP65

12 VOLT

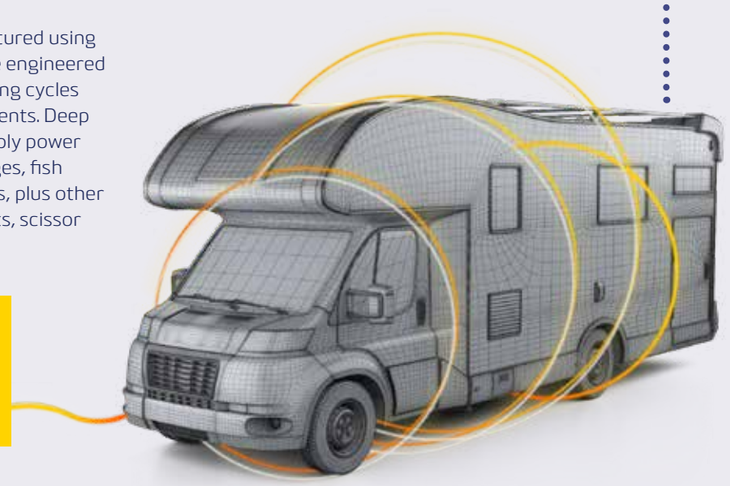
†Conditions apply. Refer to individual warranty statements attached to each battery.
#Century Lithium Pro batteries are not suitable for cranking/starting and under bonnet, grid connected solar systems or float charge applications.
^When used within recommended operating conditions and in conjunction with a compatible Lithium charger or charging system.
At 80% DOD °Compared with standard flooded lead acid battery.

DEEP CYCLE FLOODED & AGM

Century Deep Cycle batteries are designed and built to last in the New Zealand environment. Available in Flooded and AGM variants, Century Deep Cycle batteries deliver long-lasting, dependable power for accessories and are ideal as secondary batteries in recreational & commercial applications - including 4x4s, caravans and recreational vehicles, golf carts, wheelchairs, mobility scooters, marine systems, dual-battery systems and industrial equipment.

Century Deep Cycle batteries are manufactured using the toughest internal components, and are engineered to withstand heavy discharge and recharging cycles without damaging critical internal components. Deep Cycle batteries are most often used to supply power to accessories such as lights, heaters, fridges, fish finders, navigation devices, winches, pumps, plus other commercial applications including golf carts, scissor and boom lift machines.

SEASONAL USE
For seasonal use, fully recharge the battery before putting into storage. Check the state-of-charge or voltage regularly. Should the voltage drop below 12.5 volts, recharge the battery. It is important to check the battery completely before reconnecting to the electrical devices.



Deep Cycle

Deep Cycle Plus

The all-round dual purpose Deep Cycle battery with shallow-cycling and starting capabilities. Designed to provide longer life performance when continually discharged and recharged. Constructed with premium-grade raw materials and acid electrolytes to ensure reliable cycling performance in a diverse range of recreational and commercial applications.

- Superior cycle life
- Designed to withstand repeated recharge and discharge cycles
- Platelock™ technology providing shock and vibration resistance
- Thicker plates for improved strength and durability

DUAL PURPOSE STARTING & SHALLOW-CYCLING

LONG CYCLE LIFE

DEEP DISCHARGE CAPABILITY

SUPERIOR RECHARGE EFFICIENCY

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
DEEP CYCLE PLUS															
645100	24DC MF	12	12	600	135	82	260	171	202	225	D	18.6	TWIN	SIDE	CH, CI, CV, FA, MF, MR, PL, VR
645101	27DC MF	12	12	680	160	96	304	172	202	225	D	21.2	TWIN	SIDE	CH, CI, CV, FA, MF, MR, PL, VR
645104	31DC MF	12	12	680	200	110	330	173	217	239	D	25	TWIN	SIDE	CH, CI, CV, FA, MF, MR, PL, VR

Deep Cycle Flooded

A robust and dependable range of batteries designed for applications and installations where reliable, long lasting power supply is required.

- Dependable cycling performance with superior heat resistance
- Designed to withstand repeated recharge and discharge cycles
- Superior deep discharge capabilities
- Designed for under bonnet use in 4x4's, SUV's, recreational and commercial vehicles

LONG CYCLE LIFE

DEEP DISCHARGE CAPABILITY

IMPROVED RECHARGE EFFICIENCY

ENHANCED HEAT RESISTANCE

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
DEEP CYCLE FLOODED													
641140	12A	12	6	105	227	172	184	210	A	15.80	STD	-	CH, GM, LM
645103	D23LT MF	12	12	65	232	173	200	225	C	17.00	STD	-	CH, CI, FA, MF

†Conditions apply. Refer to individual warranty statements attached to each battery.

Deep Cycle

Deep Cycle AGM

The ultimate in deep cycle performance. Century Deep Cycle AGM batteries utilise the latest Absorbed Glass Mat technology to provide superior cycle life, maximum deep discharge capabilities and durability characteristics.

- Absorbed Glass Mat (AGM) Technology for superior cycle life
- Thicker full-frame cast plates for maximum deep discharge capabilities
- Spill-proof design allows for multi-angle fitment at up to a 90° angle^
- Exceptional shock and vibration resistance to handle the harshest environments

SUPERIOR CYCLE LIFE

MAXIMUM DEEP DISCHARGE CAPABILITY

SUPERIOR RECHARGE EFFICIENCY

MULTI ANGLE FITMENT^

Deep Cycle Industrial

Century Deep Cycle Industrial batteries are a range of multi-purpose, maintainable* 6, 8 and 12 volt batteries designed for use in commercial and industrial machinery. They feature thicker, heavier battery plates, heavy duty internal connections, and a high-density shock resistant construction for superior current flow and exceptional vibration resistance. Designed for strength and durability needed to provide tough, ultimate, long lasting power in recreational and industrial applications.

- Engineered for superior deep cycle performance in commercial applications
- Heavy-duty, internal connections for improved conductivity and current flow
- Thicker full-frame cast plates for deep discharge and recharge efficiency
- Wingnut terminals suits most industrial equipment wiring looms*

LONG CYCLE LIFE

DEEP DISCHARGE CAPABILITY

IMPROVED RECHARGE EFFICIENCY

REDUCED SELF DISCHARGE

ENHANCED HEAT RESISTANCE

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
DEEP CYCLE AGM													
648102	LPC6-190	12	6	190	306	168	222	228	A	30.80	M6 INSERT	-	AGM, CH, MF, VR
148130	C105AGM	12	6	225	260	180	263	282	A	30.50	TWIN		AGM, CH, CV, MF, PV, VR
148142	C12-55XDA	36	12	55	229	138	211	216	D	18.00	M6 INSERT	-	AGM, CH, CV, FA, MF, PV, VR
148143	C12-75XDA	36	12	75	260	169	211	218	D	23.50	M6 INSERT	-	AGM, CH, CV, FA, MF, PV, VR
148140	C12-105XDA	36	12	105	307	169	210	215	D	29.00	M8 INSERT	-	AGM, CH, CV, FA, MF, PV, VR
148141	C12-120XDA	36	12	120	328	172	215	220	D	32.00	M8 INSERT	-	AGM, CH, CV, FA, MF, PV, VR
148146	C12-165XDA	36	12	165	532	207	214	219	F	50.00	M8 INSERT	-	AGM, CH, CV, FA, MF, PV, VR
148147	C12-270XDA	36	12	270	520	268	220	225	F	74.00	M8 INSERT	-	AGM, CH, CV, FA, MF, PV, VR

†Conditions apply. Refer to individual warranty statements attached to each battery.
*Not suitable for inverted or end mounted use.

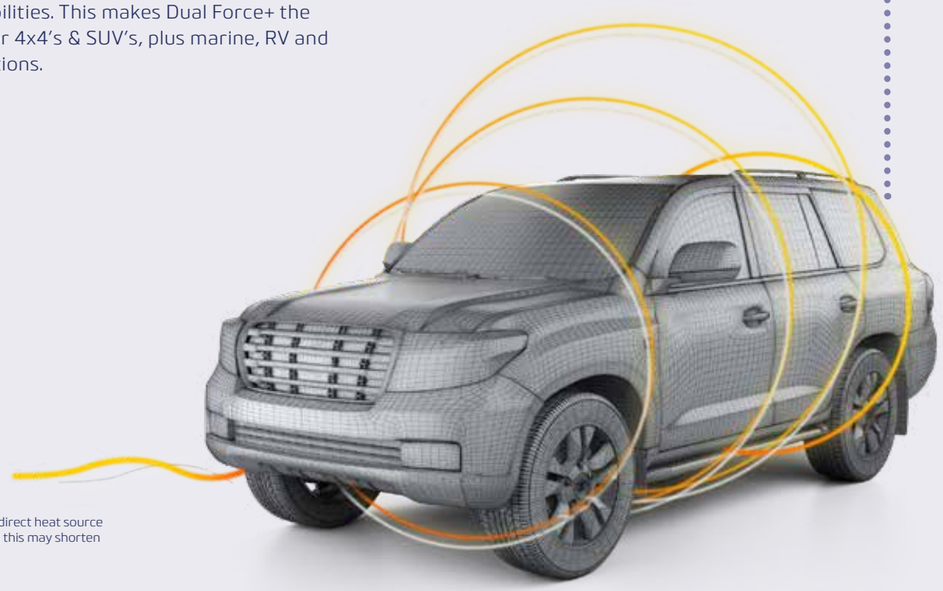
ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
DEEP CYCLE INDUSTRIAL													
641128	C105	12	6	225	264	181	245	276	A	29.79	W/NUT	-	LM, VR
641129	C145	12	6	260	264	181	264	295	A	39.90	W/NUT	-	LM, VR
641130	C8VGC	12	8	170	264	181	245	276	D	31.88	W/NUT	-	LM, VR
641131	C1275	12	12	150	329	181	245	276	D	39.60	W/NUT	-	LM, VR

†Conditions apply. Refer to individual warranty statements attached to each battery.
*Excluding C105AGM

DUAL FORCE+

Century's Dual Force+ are a range of dual purpose starting & shallow-cycling AGM batteries designed for under-bonnet use* in some of the harshest terrains New Zealand has to offer.

Incorporating the strength and durability needed to provide long lasting power, this cutting edge battery provided superior cyclic life with the added advantage of starting capabilities. This makes Dual Force+ the perfect choice for 4x4's & SUV's, plus marine, RV and camping applications.



*Avoid fitting adjacent to a direct heat source such as a turbocharger, as this may shorten overall battery life.

Dual Force+

Suitable for use in both starting and shallow-cycling applications, *Dual Force+* are a range of multi-purpose AGM batteries designed and built specifically for use in a diverse range of applications where dependable starting power and cycling power is a must.

Unlike many competitor's AGM products, Century's new *Dual Force+* range is manufactured using advanced AGM technology and specialist hard wearing Polypropylene cases which makes them ideal for use in under bonnet applications where heat, fluids and other contaminants can damage products not built to the same specifications.

The products are supplied with twin terminals, a dual warranty and an array of advanced design features to ensure long lasting dependable power in a range of applications:

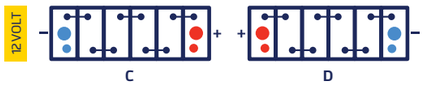
- 4x4 and light commercial starting systems
- Caravan, RV & recreational camping applications
- Dual battery systems
- Marine starting and cycling

- ✓ Dual-purpose – starting & shallow cycling applications
- ✓ Durable AGM construction with up to 20x greater vibration resistance
- ✓ Up to 4x more cycle life compared to standard automotive batteries
- ✓ Ideal for applications where a dual battery system cannot be fitted

24 MONTH WARRANTY* 12
STARTING — See top and back labels for warranty conditions. — CYCLING

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
DUAL FORCE+															
648116	24X MF	24*/12	12	730	140	75	260	174	200	221	D	21.50	TWIN	SIDE	AGM, CH, FA, MF, VR
648117	24LX MF	24*/12	12	730	140	75	260	174	200	221	C	21.50	TWIN	SIDE	AGM, CH, FA, MF, VR
648114	27X MF	24*/12	12	750	175	90	302	174	200	220	D	23.50	TWIN	SIDE	AGM, CH, FA, MF, VR
648115	27LX MF	24*/12	12	750	175	90	302	174	200	220	C	23.50	TWIN	SIDE	AGM, CH, FA, MF, VR
648118	31X MF	24*/12	12	950	200	100	332	172	210	232	D	28.50	TWIN	-	AGM, CH, FA, MF, VR

TWIN TERMINAL



†Conditions apply. Refer to individual warranty statements attached to each battery.
NOTE: Fitting batteries adjacent to a direct heat source such as turbo chargers may lead to shortened battery life.
*24 months for private use, 12 months for commercial use.

MARINE PRO

The ultimate in marine batteries, perfectly adapted to life on the water. Century Marine Pro batteries are specifically designed to handle the harsh and demanding environments which boats are often subjected to. Continuous vibration from high-power engines and the relentless hull impacts from waves can all take their toll on the battery – which is why it is important to use a battery which is built to thrive in these conditions.

Engineered for purpose and manufactured using quality components, the Century Marine Pro offers a wide range of product options to suit all popular boat types and engine sizes. From a starting battery for a tinny, right through to batteries for starting larger engines and powering accessories – there's a Marine Pro battery to suit.

ON-BOARD MARINE ELECTRICS

BASIC ELECTRICS	OPTIONAL ELECTRICS
» Control instruments	» Extra lighting
» Standard lighting	» GPS / Fish Finder
» Bilge pump	» Auto pilot / Trim tabs
» UHF / VHF radio	» Fridge

Marine Pro

Century Marine Pro batteries are designed and manufactured to handle the rigours of wave pounding and deliver reliable starting power and performance. The Marine Pro range can start engines from 70 – 350+hp and power multiple on-board accessories^.

- Superior starting power - starts engines from 70 – 350+hp
- Dual purpose – starting and semi-cycling capabilities for on-board accessories *
- Thicker full frame cast plates for improved strength and durability
- Platelock™ technology to combat the effects of wave pounding and damage from trailer transport

DUAL PURPOSE STARTING & SEMI-CYCLING^

STARTS ENGINES UP TO 350HP

PLATELOCK™ COMBATS WAVE POUNDING

SUPERIOR STRENGTH & ENDURANCE

EXTREME VIBRATION RESISTANCE

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	MCA @ -0°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES	STARTS ENGINES
MARINE PRO																	
635107	D23RM MF* (Marine Pro 580)	24	12	580	750	90	50	230	170	185	209	D	13.80	DF	-	CH, CI, FA, MF, MR, PL, VR	Up to 70hp
635108	NS70M MF (Marine Pro 680)	24	12	680	880	140	78	258	174	200	222	D	17.90	TWIN	SIDE	CH, CI, CV, FA, MF, PL, VR	Up to 150hp
635109	N70ZM MF (Marine Pro 780)	24	12	780	1000	160	80	302	171	200	222	D	21.60	TWIN	SIDE	CH, CI, CV, FA MF, PL, VR	Up to 350hp
635110	86M MF (Marine Pro 1000)	24	12	1000	1200	180	100	330	172	218	242	D	25.00	TWIN	-	CH, CI, CV, FA, MF, MR, PL, VR	350+hp

Do not connect starting cables to threaded terminal posts.

OFFICIAL BATTERY PARTNER TO

COASTGUARD TAUTIAKI MOANA

†Conditions apply. Refer to individual warranty statements attached to each battery.
*Recommended for starting applications only.
^Excluding Marine Pro 580.

LAWN & GARDEN

Power and performance from season to season.

Century EverRide Lawn & Garden batteries are the perfect partner for your ride-on mower!
The EverRide range represents the latest in small engine starting technology for ride-on mowers and personal watercraft. Available in both low-maintenance and maintenance free options, they're built tough to handle New Zealand's extreme climate and harsh operating conditions.

Lawn & Garden

EverRide Maintenance Free

Developed from some of the most advanced technical resources, and built tough to deliver superior starting power and performance.

- Maintenance free design - sealed to protect against dirt and dust ingress
- Lead-calcium technology with expanded plates for lower self-discharge and longer life
- Strong construction providing shock and vibration resistance

SUPERIOR STARTING POWER · **REDUCED SELF DISCHARGE** · **EXTRA STRENGTH & ENDURANCE** · **IMPROVED VIBRATION RESISTANCE**

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
EVERRIDE MAINTENANCE FREE															
660102	U1 MF	12	12	330	50	32	195	127	155	182	D	8.20	LUG	-	CH, CV, FA, MF, MR, VR
660103	U1R MF	12	12	330	50	32	195	127	155	182	C	8.20	LUG	-	CH, CV, FA, MF, MR, VR

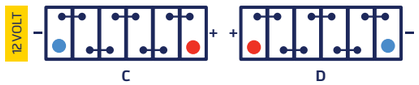
EverRide Low Maintenance

Engineered to protect against acid seepage, corrosion and vibration damage. Century EverRide Low Maintenance batteries incorporate robust internal components to deliver dependable starting power and reliable performance.

- Low maintenance design for maximum control over service life
- Calcium-antimony technology for reduced fluid loss and self-discharge
- Strong, durable cast plates for longer life

DEPENDABLE STARTING POWER · **LOW SELF DISCHARGE** · **ADDED STRENGTH & ENDURANCE** · **BUILT TO COMBAT VIBRATION**

ITEM ID	BATTERY TYPE	WARRANTY†	VOLTS	CCA @ -18°C	RC @ 25°C	AH @ 20HR	(ALL MEASUREMENTS IN MM) L	W	H	TH	POLARITY	WEIGHT (KG)	TERMINAL TYPE	HOLD DOWN	SPECIAL FEATURES
EVERRIDE LOW MAINTENANCE															
660100	12N24-3	12	12	240	35	24	185	125	160	178	C	7.40	LUG	-	LM,VR
660101	12N24-4	12	12	240	35	24	185	125	160	178	D	7.40	LUG	-	LM,VR



†Conditions apply. Refer to individual warranty statements attached to each battery.

TESTING, CHARGING & DIAGNOSTIC EQUIPMENT

Century's battery testing, charging & diagnostic equipment includes a range of innovative, market leading automotive, powersports & stationary power testers that are designed to take the guess work out of battery testing.

They provide fast, accurate, on-the-spot test results regarding a battery's state of health. They can help identify suspect batteries before they fail and ensure pre-emptive battery replacement to avoid the inconvenience and distress of battery failure.

Testing Equipment

Testing Equipment

A range of battery testing equipment that features patented Single Load Dynamic Resistance technology to simulate the real-world conditions a battery will face.

The testers will not be misled by common conditions such as high surface voltage, poor cell connections and contact impedance, delivering accurate results test after test.

ITEM ID	PRODUCT TYPE	APPLICATION	TESTING RANGE	BATTERY TYPE	FEATURES
DHC TESTERS					
691013	BT521	Passenger Vehicle, 4x4, Lawn & Garden, Truck, Marine Cranking, Motorcycle	40 to 2000 CCA	Flooded, AGM, VRLA, GEL, and ISS (EFB, AGM)	• 6V & 12V battery testing • 12V Idle Stop Start battery testing • 12V & 24V Starting & charging system testing • Integrated Printer
691000	BT002	Passenger Vehicle, 4x4, Lawn & Garden, Truck, Marine Cranking, Motorcycle	40 to 2000 CCA	Flooded, VRLA, Gel and AGM	• 6V & 12V battery testing • 12V & 24V Starting & charging system testing

IDLE STOP START & AUXILIARY BATTERY TESTING

Deep Cycle Tester

The Astratec tester provides a simple, quick and accurate way to check battery performance and helps to diagnose faulty deep cycle batteries, results can be printed off using the additional printer.

ITEM ID	PRODUCT TYPE	APPLICATION	TESTING RANGE	BATTERY TYPE	FEATURES
ASTRATEC TESTER & PRINTER					
691011	3911R	Deep Cycle Battery Testing	15-200AH	Lead Acid	Operating voltage - 12-16V
691012	EPT1	Printer	-	-	-

Charging & Monitoring Equipment

Chargers & Maintainers

Century's range of 6 Volt & 12 Volt battery chargers can charge batteries rated up to 500Ah[1] and maintain batteries rated up to 750Ah. Incorporating patented rejuvenation technology the chargers have the ability to recover heavily discharged batteries, and will activate from as low as 2 Volts.[2]

ITEM ID	PRODUCT TYPE	CHARGING RANGE	BATTERY TYPE	FEATURES
CENTURY BATTERY CHARGERS & MAINTAINERS				
690012	**6/12V 1.2A** CC6121.2	4-24 Ah	6/12V SMF (Calcium), AGM, Flooded & Gel lead-acid batteries	• 8 stage smart charging process • Selectable 6V & 12V output • Maintains batteries rated up to 100Ah • Activates on batteries discharged as low as 3V[2]
690015	**12V 6A** CC1206-XLi	3-120 Ah	12V SMF (Calcium), AGM, Flooded & Gel lead-acid batteries and Lithium (LFP) batteries	• 9 stage[3] smart charging process • Selectable 1A/3A/6A output • Maintains batteries rated up to 180Ah • Activates on batteries discharged as low as 2V • LFP Wake Up-Power Supply
690013	**12V 12A** CC1212-XLi	3-240Ah	12V SMF (Calcium), AGM, Flooded & Gel lead-acid batteries and Lithium (LFP) batteries	• 9 stage[3] smart charging process • Selectable 1A/8A/12A output • Maintains batteries rated up to 360Ah • Activates on batteries discharged as low as 2V • LFP Wake Up-Power Supply
690016	**12V 25A** CC1225-XLi	6-500 Ah	12V SMF (Calcium), AGM, Flooded & Gel lead-acid batteries and Lithium (LFP) batteries	• 9 stage[3] smart charging process • Selectable 2A/15A/25A output • Maintains batteries rated up to 750Ah • Activates on batteries discharged as low as 2V • LFP Wake Up-Power Supply • Temperature Compensation (only for lead-acid batteries)

Monitoring Equipment

The Century BM12V Battery Monitor is the easiest way to keep track of the battery's state of charge and the vehicles starting and charging systems.

The monitor helps prevent vehicle breakdown by transmitting real time battery data to the user's smartphone. Easy to set up push notifications will warn user about low battery voltage and record the battery's daily voltage levels to help identify potential issues.

ITEM ID	PRODUCT TYPE	BATTERY TYPE	FEATURES
BATTERY MONITOR			
191020	BM12V	12V Lead-acid batteries (Flooded, AGM & Gel)	• Bluetooth enabled • App supports multiple monitors • iOS and Android smartphones compatible • Real time monitoring • 31 Day logging • Auto alert system

[1]Based 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.
[2]3V/8V activation on the CC6121.2, when 6/12V setting is selected. [3]7-stage on lithium mode.

Diagnostic Equipment

YU-FIT Battery Configurator

With the introduction of CO_2 production control systems such as smart charging and Idle Start Stop (ISS) it is essential that the vehicle has the correct battery type and specification installed.

An increasing number of automotive manufacturers have introduced systems that now require a replacement battery to be correctly configured to the vehicle after installation.

Failure to configure the correct specification battery could result in:

- Undercharging or overcharging of the battery resulting in damage which is not covered by the manufacturer's warranty
- Loss of the ISS CO_2 production control system functionality
- Possible loss of non-critical vehicle system functions

Battery configuration prevents incorrect battery charging, ensures the correct operation of the ISS CO_2 production control system and prevents the loss of non-critical vehicle systems.

The Century YU-FIT battery configurator tool allows the configuration process to be carried out on a growing number of vehicles equipped with new technology smart charge and ISS systems.

ITEM ID	PRODUCT TYPE	APPLICATION	BATTERY TYPE	FEATURES
YU-FIT BATTERY CONFIGURATOR				
695013	YU-FIT Battery Configurator	Idle Stop-Start Vehicles	ISS AGM & EFB	Easy to read LED Results, Voltage check, Battery Test, Update via Internet

Why do Batteries Fail?

Batteries have a finite life, determined by the application and the operating conditions. Battery failure can be attributed to various factors, however the causes of failure fall under two distinct categories: manufacturing and non-manufacturing faults.

Manufacturing Faults

Typically occur within the first 3 months.

Short Circuits/Dead Cells
Where one cell will show a dramatically lower Specific Gravity (SG) reading than the other cells.

Internal Break
Usually resulting from physical damage to a battery during transportation. Century's stringent quality assurance and inspection processes demanded by leading vehicle manufacturers ensure genuine manufacturing faults in Century batteries are negligible.

Non-Manufacturing Faults

These fall outside of Century's strict quality control systems and are more likely to occur the longer the battery is in service. They are often attributed to a problem with the vehicle's electrical system, its operation or the battery application.

Wear and Tear
As a battery ages, grid metal corrodes and active material is lost from the plate. Over time this leads to a point where the battery will no longer be able to start a vehicle. High temperature will accelerate the degradation rates.

Physical Damage
Incorrect fitment, handling and storage often leads to external damage and subsequent battery failure.

Incorrect Application
Fitting a smaller, less powerful battery or a battery designed for another application can lead to early failure.

Sulphation
Occurs when the battery is allowed to stand in a discharged state for an extended period of time.

Negligence
Failure to maintain fluid levels exposes internal components and accelerates battery failure.

Under-Charging
Short journeys, stop start driving or faulty alternators will not fully recharge a battery.

Over-Charging
Often caused if the alternator is incorrectly set or the alternator voltage control fails.

Discharge
Lights or other accessories left on for extended periods.

Factors Affecting Battery Life

As batteries operate and age, they gradually lose their capacity. The constant charge and discharge process eventually leads to failure. Components corrode over time, electrical shorts occur and vibration causes damage; eventually causing failure. Overcharging and undercharging a battery will also have a bearing on battery life.

Early Warning Signs

Batteries often fail when least expected and can be avoided with regular battery testing. Typical warning signs include a slower than normal ability to crank the engine. Other less noticeable factors, such as changed driving patterns and colder/hotter weather will all have an affect on the life of a battery. Regular battery testing can identify suspect batteries before they fail and avoid the inconvenience of a roadside breakdown.

Battery Inspection

Check electrolyte levels of a maintainable battery - fluid below the tops of the separators indicate overcharging or poor maintenance. Overcharging conditions may be due to an incorrect voltage setting, low voltage caused by heat or internal defects, or old age deterioration.

Check the State of Charge Indicator on a sealed maintenance free battery - this gives you a snap shot of the battery's condition and whether the battery needs to be charged or replaced.

- **Is there electrolyte on the top of the battery?**
  This can indicate overcharging or overfilling.
- **Is the battery loose in the carrier?**
  This can cause failure from vibration.
- **Does the battery have signs of damage or mistreatment?**
  This can also cause failure.

Discharged (flat) Batteries

A flat battery should be checked using the State of Charge Indicator on top of the battery, with a voltmeter or hydrometer depending on the type of battery. A low specific gravity reading of 1.240 or less in all cells indicates a discharged battery and it must be charged before further examination and testing can occur.

The discharged condition may be due to a problem in the electrical system (slipping alternator belt, faulty regulator or alternator, high resistance due to corrosion). Internal shorts may also be due to manufacturing defects, the ageing process or vibration damage.

Useful Tips

- Vibration can reduce a battery's life. Always use an approved battery clamp to limit vibration. Century batteries are built tough, using robust internal components to resist damage through abrasion and puncture from vehicle vibration.
- Many alleged 'dead batteries' are merely flat batteries. Drivers simply leave lights on or can have faulty voltage regulators.
- Ensure the battery is properly tested before replacing it.
- It is difficult to know exactly when a battery might fail. A slow starting engine is sometimes an indication.
- Old batteries can give trouble in colder weather.
- Equally, if an engine area becomes overheated in very hot temperatures and the battery is under strain from air conditioners it may fail. Regular battery checks are always advised.

Century Batteries Nationwide Warranty

Each battery supplied by Century Yuasa comes with a warranty against defects for the period and application, as detailed on each battery.

If our testing determines the battery is defective we will replace it, however the costs of delivering it to the warranty location and collecting it and any replacement are yours. The claim must be made within the warranty period featured on the battery. Dated proof of purchase is required. The warranty period for replacement starts on the date of purchase of the defective battery it replaces. **Call 0800 93 93 93** for advice and assistance regarding warranty claims. This warranty does not cover defects due to abuse, damage, neglect, sulphation, over or under charging, normal wear and tear or incorrect application, installation or maintenance.

This warranty is in addition to other rights and remedies available at law. Our goods come with guarantees that cannot be excluded under New Zealand's Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

THIS WARRANTY DOES NOT COVER:

- ✕ A flat battery
- ✕ Normal wear and tear
- ✕ Physical damage
- ✕ Undercharging (sulphation)
- ✕ Incorrect application
- ✕ Negligence (before or during use)
- ✕ Overcharging
- ✕ Spillage from over filling
- ✕ Modifications to the battery
- ✕ Failure arising from the addition of fluids other than water
- ✕ Batteries used for motorsport or racing activities

Private Use Statement

Private use is a vehicle used for private needs, as opposed to business uses. These vehicles are generally defined as having only four wheels and are not used to carry passengers or goods for monetary purposes.

Warranty Periods Explained

BATTERY CATEGORY	PRIVATE USE / STARTING	COMMERCIAL USE / STARTING	RIDE SHARE	TAXI	PRIVATE MARINE STARTING	COMMERCIAL MARINE STARTING	DEEP CYCLE PRIVATE	DEEP CYCLE COMMERCIAL	MOBILITY SCOOTER
All warranty periods are stated in months or kilometres.									
ISS Active AGM	36	12	12	12	-	-	-	-	-
ISS Active EFB	36	12	12	12	-	-	-	-	-
ISS Active EFB MF	24	12	12	12	-	-	-	-	-
Hybrid Auxiliary	24	6	6	12	-	-	-	-	-
Car & PV UHP	40	12	12	12	-	-	-	-	-
Car & PV HP	30	12	12	12	-	-	-	-	-
4x4, SUV, Light Commercial UHP	30	24	12	12	-	-	-	-	-
4x4, SUV, Light Commercial HP	24	20	12	12	-	-	-	-	-
Truck UHP Severe Service	24	24	-	-	-	-	-	-	-
Extra Heavy Duty/Heavy Duty AGM	24	24 or 160,000km	-	-	-	-	-	-	-
Heavy Duty	24	24 or 120,000km	-	-	-	-	-	-	-
Marine Pro	-	-	-	-	24	12	-	-	-
Lithium Deep Cycle	-	-	-	-	-	-	60	-	-
Deep Cycle Plus	12	12	12	-	-	-	12	12	-
Deep Cycle Flooded	-	-	-	-	-	-	12	12	-
Deep Cycle AGM	-	-	-	-	-	-	36	12	12
Dual Force+	24	12	12	-	24	12	12	6	-
Industrial Deep Cycle	-	-	-	-	-	-	12	12	-
Lawn & Garden	12	6	-	-	-	-	-	-	-

- No warrnty period applicable.

Battery Charging

Safety first

Before attempting to charge a battery with an external battery charger, it is important to be aware of the safety precautions when charging batteries and follow the instructions outlined by the charger manufacturer.

1. Turn the charger off before attaching, rocking or removing the terminal clamps.
2. Keep open flames and sparks away from the battery.
3. Keep vent caps in place.
4. Charge in well ventilated area.
5. Follow the battery charger manufacturer's instructions to avoid overheating.

Dangerous explosive gases are generated during the charging process that can be ignited by a variety of sources including, sparks, naked flames and static electricity.

It is highly recommended to wear PPE (Personal Protection Equipment) including safety glasses, chemical resistant gloves and overalls.

Selecting the correct charger

Lead acid batteries should be charged in 3 stages; constant current (boost), constant voltage (absorption) and float charge.
When choosing a battery charger, it is important to select a charger that delivers the specified charging voltage and current to suit the battery type.
Flooded, Absorbed Glass Mat (AGM), Gel and Lithium battery types require different charging specifications to provide optimum performance and service life.

Charging Voltage (for manual chargers)

Monitoring battery voltage during charging is extremely important to reduce the risk of overcharging and to check the progress of the battery during recharge. Always keep inside the parameters outlined in the below table. Failure to do so can result in permanent damage to the battery.

CHARGE VOLTAGE BY BATTERY TYPE

TYPE	ABSORPTION CHARGING	FLOAT CHARGING
Flooded (Maintainable / SMF)	14.4 to 14.8V	13.2 to 13.5V*
AGM (Absorbed Glass Mat)	14.6 to 14.8V	13.6 to 13.8V
Gel Electrolyte	14.2 to 14.4V	13.6 to 13.8V
Lithium (LFP)	14.4V^	N/A

- The recommended temperature during charging is 25°C. Charging must be paused if the battery reaches 50°C.
- The above specifications are for 12 volt lead acid and Lithium (LFP) batteries. When charging 6 volt batteries, halve the voltage specifications provided.
- When charging Lithium batteries please follow manufacturers recommended guidelines as detailed in user manual or on the battery
- In addition to following the battery charging voltage guidelines, selecting the correct charging current (Amps) for the battery size is crucial to provide performance and service life.

*We do not recommend to float charge flooded Sealed Maintenance Free (calcium) batteries due to risk of drying out of the electrolyte.

^14.4V is recommended (refer to product spec sheets in case of exception).

Lithium Pro Charging Information

Century Lithium Pro batteries must be fully charged before first use. They can be recharged up to 10x faster than traditional lead acid batteries resulting in less down time and quicker deep discharge recovery. They should only be recharged using a charger or charging system configured for lithium batteries and be charged in line with the recommended charging rates, temperatures and settings as outlined in product specification sheet.

Charging Current (for manual chargers)

The recommended safe charging current is 10% of the battery's 20 hour (Ah) rating. For example if you want to charge a 100Ah battery, the recommended charging current for this battery would be 10 Amps.

Slow charging is the best way to recharge a lead acid battery. Fast charging a lead acid battery by increasing the recommended amperes may cause undue stress and shorten battery life.

CONSTANT CURRENT CHARGING METHOD (AMPS X HOURS)

CHARGING CHART		Product Rated Capacity							
		Rc (minutes)	< 65	65-80	81-105	106-120	121-150	151-170	171-185
		Ah @ 20hr	31-40	41-50	51-60	61-70	71-80	81-90	91-100
OCV	SOC %	Charging Current (10% of Ah)	4A	5A	6A	7A	8A	9A	10A
12.42~12.54	70~75%	Charging Time	3 Hours						
12.36~12.48	60~70%		5 Hours						
12.24~12.36	50~60%		6 Hours						
12.12~12.24	40~50%		8 Hours						
12.00~12.12	30~40%		9 Hours						
Below 11.99	<30%		12 Hours						

- Due to efficiency aspects, the charge amount must be more than the discharged amount. This coefficient factor can be between 110% to 150%.
- The deeper the discharge, the higher the coefficient factor.

Note: Charging must be paused when the temperature rises above 50°C

CHARGING TIME

TYPICAL CHARGING TIME VS. 80% & 100% STATE OF CHARGE

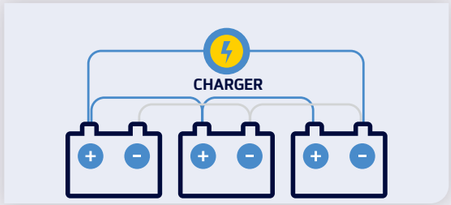
It will take about 60% of the total charging time to charge a lead acid battery to 80%, and the remaining 40% of the time to put the last 20% of charge back into the battery.

IMPORTANT NOTE: Avoid quick charging as this only charges the surface of the battery plates and can increase the chance of overheating, leading to permanent battery damage.

The recharging duration is difficult to determine due to variables such as:

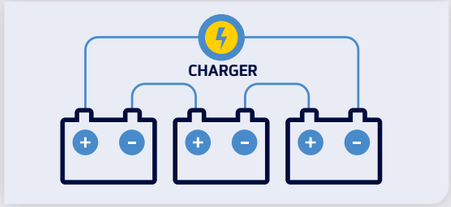
- Depth of discharge
- Temperature
- Size and efficiency of the charger
- Age and condition of the battery
- For a guide, refer to the constant current charging method table

CONNECTING BATTERIES – PARALLEL CONNECTION



- When connecting multiple 12 volt batteries in parallel, you are increasing the capacity of the battery bank while maintaining the voltage. E.g. 3 x 12 volt 60Ah batteries when parallel connected will create a 12 volt 180Ah bank.
- When connected to a battery charger, the charging current is divided between all the batteries in the bank. E.g. A 15 amp charger connected to 3 batteries will provide up to 5 amps current into each battery.

CONNECTING BATTERIES – SERIES CONNECTION



- When connecting 12 volt batteries in series, you are increasing the voltage of the battery bank while maintaining the capacity. E.g. 3 x 12 volt 60Ah batteries when series connected will create a 36 volt 60Ah bank.
- When charging batteries in series, you must have the correct voltage charger for the number of batteries in the bank.
  E.g. If you have 3 x 12 volt batteries in series, you must use a 36 volt charger.

Battery Care & Maintenance^

Use the following as a guide when examining your batteries*:

1. Check the battery's state of charge. Most batteries have a State of Charge Indicator on top of the battery that will give you an on the spot diagnosis of the battery condition. However, a more reliable way to check is with a voltmeter to determine the stabilised voltage or if the vent caps are removable a hydrometer to determine the specific gravity (SG) of the electrolyte. A charged Century battery will have a stabilised voltage above 12.5 volts and an SG reading above 1.240.
2. Ensure the battery top is clean, dry, free of dirt and grime. A dirty battery can discharge across the grime on top of the battery casing.
3. Inspect the terminals, screws, clamps and cables for breakage, damage or loose connections. These should be clean, tight and free of corrosion.
4. Apply a thin coating of high temperature grease to posts and cable connections for added protection.
5. Inspect the battery case for obvious signs of physical damage or warpage. This usually indicates the battery has been overheated or has been overcharged.
6. If you have a maintainable battery, it is important to check if the battery has sufficient electrolyte covering the battery plates. If topping up is required, do not over fill as the fluid levels will rise when the battery is fully charged and may overflow. Top up using distilled or demineralised water and never fill with sulphuric acid.
7. When servicing a sealed maintenance free (SMF) battery, check the State of Charge Indicator. This gives you a snap shot of the battery's condition and whether the battery needs to be charged or replaced. The vehicle may still start the engine although the indicator outlines to replace the battery. If the State of Charge Indicator advises 'Replace' it is important that the battery is replaced as the electrolyte levels may be below the plates which can lead to an internal explosion.
8. For batteries used in seasonal applications and stored long term, fully recharge the battery prior to storing. Check the state of charge or voltage regularly. Should the voltage drop below 12.5V, recharge the battery. It is important to check the battery completely before reconnecting to electrical devices.

^Always follow manufacturers guidelines.
*Lead acid batteries only

Battery Health & Safety#

Battery Acid

Battery acid can cause burns. Suitable hand, eye and face protection and protective clothing must be worn.

First Aid

For advice, call Poison Centre in New Zealand 0800 764 766 quoting SULPHURIC ACID & UN Number 2794/2800, or call a doctor/ physician immediately.

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by poisons information centre or doctor, or at least 15 minutes.

If skin or hair contact occurs, remove contaminated clothing and flush skin or hair with running water.

If Electrolyte is Swallowed, do NOT induce vomiting - give a glass of water. Seek immediate medical assistance.

Acid Spill Response

Bund and neutralise spills with soda ash or other suitable alkali. Dispose of residue as chemical waste or as per local requirements.

Exploding Battery

Batteries generate explosive gases during vehicle operation and when charged separately. Flames, sparks, burning cigarettes or other ignition sources must be kept away at all times. Exercise caution when working with metallic tools or conductors to prevent short circuits and sparks.

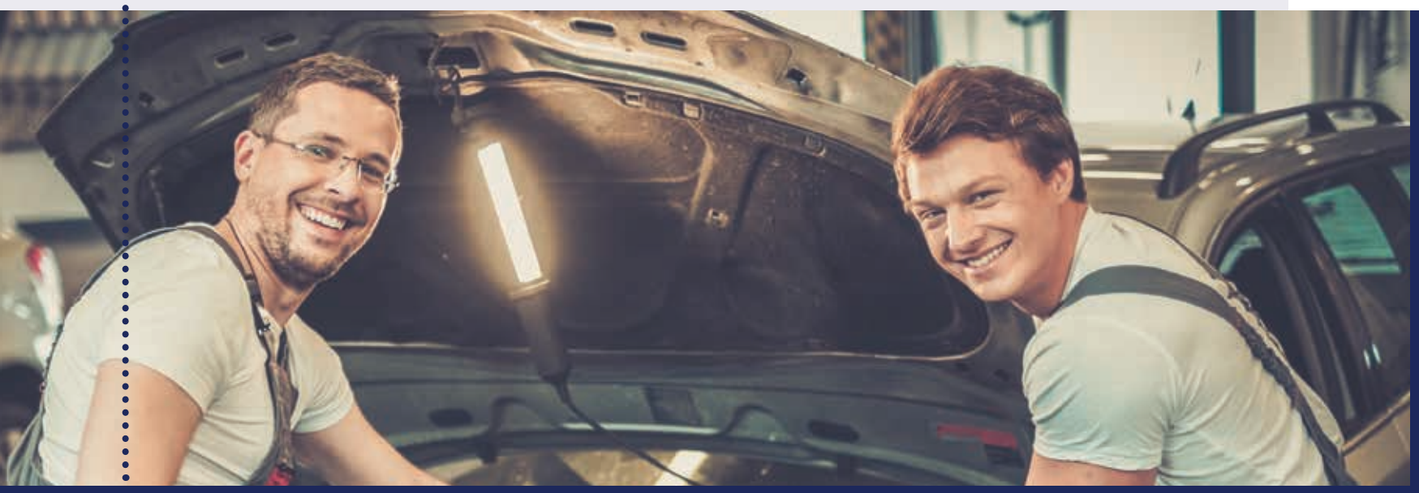
Always Shield Eyes When Working Near Batteries

When charging batteries, work in a well-ventilated area - never in a closed room. Always turn battery charger or ignition off* before disconnecting a battery.

#As extracted and interpreted by product manufacturer from the Battery Council International Service Manual, Chapter 2, Thirteenth Edition. *In some vehicles, ignition may be required to be placed in accessory mode where electronic memory minder is present.

New Battery Installation

Before disconnecting and reconnecting the battery from the vehicle, ensure all electrical equipment is turned off including the ignition system, air-conditioning, lights and radio. Remove the keys from the ignition and if the vehicle has a Frequency Operated Button (FOB) with keyless entry, the FOB should be kept at least 2 metres clear of the vehicle.



In vehicles that have a computerised electrical system, disconnecting the battery may erase memory from the engine control module (ECM), transmission control module (TCM), clock, radio, security codes and navigation systems.

A battery backup can be used to retain memory by plugging a power source into the cigarette lighter socket, OBD (On Board Diagnostic) plug or using jumper leads on the positive terminal lead and earthed to the vehicle body.

If you need to reset the battery management system (BMS), FOB or Idle Stop Start (ISS) system in the case of the warning below, the drivability of the vehicle will be restored after completing at least one drive cycle. The drive cycle is usually defined in your vehicle manual.

Before carrying out any work on the electrical system beyond the battery, the air bag system must be electrically disabled. Never indiscriminately probe the electrical wiring/connectors in the vicinity of the steering column.

The wiring and harness connectors of most air bag systems are bright yellow; do not interfere with any harness of this colour. As an added safety measure it is recommended that no person should remain seated behind the steering wheel while any electrical service work is carried out on the vehicle.

WARNING

- Always read the battery health and safety procedures before new battery installation. **Refer to page 57.**
- Vehicles that have BMS, FOB's and ISS functionality may need to be powered down by disconnecting the battery to reset the system and prevent damage to the vehicle and new battery.
- Before disconnecting the battery from a vehicle fitted with an ISS system, the battery monitoring sensor will need to be disconnected from the battery earth lead.
- Battery backups or battery chargers must not be connected directly to the battery sensor terminal as this can cause damage to the sensor. The earth lead should always be earthed to the engine block or vehicle body.

NOTE: When possible always refer to the vehicles user manual.

Removal of Old Battery

1. Note location of positive terminal and mark polarity on positive cable.
2. Remove the ground (-) terminal first. This precaution is necessary to avoid damage to wiring and the battery by accidentally grounding tools.
3. Remove the second (+) terminal.
4. Undo hold down clamp and remove battery.

New battery installation

1. Check battery height to ensure there is sufficient bonnet clearance.
2. Inspect tray and area for corrosion. If necessary, scrub the area with a water and baking soda mix and rinse with water.
3. Corroded steel parts should be dried and painted with acid proof paint. Terminals should be cleaned and brushed.
4. Cable and starter motor connections should be checked and tightened if necessary.
5. If terminal clamps or cables are badly corroded, they should be replaced.
6. Place the new battery in the tray, ensuring it sits level and that terminal posts are positioned same as the battery.
7. Place and tighten the hold downs securely so that the battery cannot move in the tray.
8. Apply a thin coating of high temperature grease to the posts and cable connections.
9. Replace cables, ensuring positive cable is first followed by the negative. Tighten connections. Note: Do not over tighten.
10. Never hammer cable connections onto battery posts, as this can damage the battery posts and cover.

SAFETY PRECAUTIONS FOR VEHICLES FITTED WITH AIR BAGS

Removal or replacement of battery connections will not unintentionally trigger an air bag system. However removal of battery connections with the ignition remaining "ON" can cause damage to electronic components including the airbag system – always check to ensure the ignition is "OFF" before removing either battery terminal.

For more information on Century's range of products and services, contact your nearest Century sales office on 0800 93 93 93 or visit centurybatteries.co.nz

Head Office
259 Church Street, Onehunga,
Auckland 1061

Auckland
149 Captain Springs Road,
Onehunga, Auckland 1061

Whangarei
Unit 7, 7- 11 Nell Place,
Whangarei 0110

Hamilton
Unit 2, 149 Ossie James Drive,
Hamilton 3282

Tauranga
41 Patene Place, Omanawa 3171,
New Zealand

Napier
61 Ford Road, Onekawa,
Napier 4110

New Plymouth
14 Mustang Drive, Bell Block,
New Plymouth 4312

Palmerston North
7 Connolly Place, Milson,
Palmerston North 4414

Wellington
48 Seaview Road, Seaview,
Lower Hutt 5010

Nelson
6/38 Estuary Place, Richmond,
Nelson 7020

Christchurch
485A Waterloo Road, Islington,
Christchurch 8042

Dunedin
33 Devon Street,
Central Dunedin,
Dunedin 9016

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