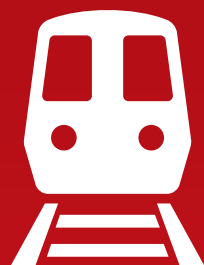




Rolls
BATTERY ENGINEERING

RAILROAD & DIESEL STARTER





RAILROAD & DIESEL STARTER SERIES

Designed to meet and exceed the performance requirements of the Railroad Industry, Rolls heavy-duty models deliver heavy-duty plate construction, 180+ day liquid reserves and superior cycle life in durable high-temperature retardant & moisture-tight cases.

Rolls



8 NS 33P



32 CH 35PR

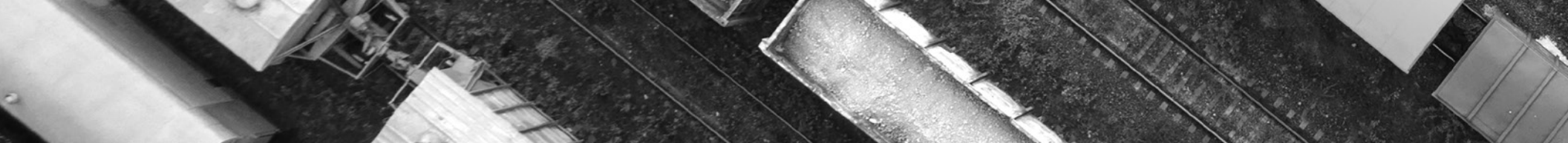


8 NS 23P

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FLOODED RAILROAD & DIESEL STARTER BATTERIES

Rolls Railroad & Diesel Starter 4-volt & 6-volt flooded battery models offer heavy-duty plate construction in dual container design. Each modular 2-volt cell is securely bolted and fully protected in the high temperature-retardant and moisture-tight outer container.

SERIES	MODEL	8 HR RATE	20 HR RATE	CCA @ -17°C (0°F)	CCA @ 0°C (32°F)	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
	ROLLS BATTERY 4000 SERIES: 4 VOLT								
4000	4 CH 23P	472	605	1893	2367	14.38in 36.5cm	8.25in 21.0cm	18.25cm 46.4cm	128.0lbs 58.0kg
	ROLLS BATTERY 4000 SERIES: 6 VOLT								
4000	6 HHG 31P	296	344	1337	1671	20.75in 52.7cm	8.00in 20.3cm	11.88in 30.2cm	124.5lbs 56.5kg
4000	6 EHG 31P	353	410	1549	1936	20.75in 52.7cm	8.00in 20.3cm	12.75in 32.4cm	132.5lbs 60.0kg

Special orders and discontinued models available upon request.
All capacities based on specific gravities of 1.280. Reduce capacity 5% for 1.256 specific gravity and 10% for 1.250 specific gravity.



6 HHG 31P

FEATURES

- Non-breakable dual-container construction
- Modular, bolted 2 volt cells
- Computer-controlled formation
- Environmentally friendly; moisture-tight outer cover
- Load and capacity tested prior to shipping
- 5 year warranty



4 CH 23P



8 VOLT MODELS

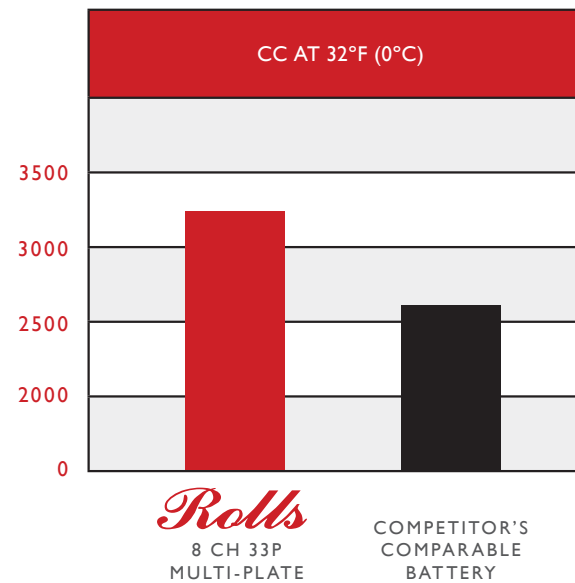
SERIES	MODEL	8 HR RATE	20 HR RATE	CCA @ -17°C (0°F)	CCA @ 0°C (32°F)	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
	ROLLS BATTERY 4000 & 5000 SERIES: 8 VOLT								
4000	8 HHG 31P	296	344	1337	1671	27.00in 68.6cm	8.00in 20.3cm	11.88in 30.2cm	166.5lbs 75.5kg
4000	8 EHG 31P	353	410	1549	1936	27.00in 68.6cm	8.00in 20.3cm	12.75in 32.4cm	177.5lbs 80.5kg
5000	8 CH 17SP	343	440	1357	1697	20.75in 52.7cm	8.25in 21.0cm	17.5in 44.5cm	216lbs 147.0kg
5000	8 NS 23P	351	450	1559	1949	28.25in 109.2cm	8.25in 21.0cm	18.25in 46.4cm	241.5lbs 109.5kg
5000	8 CH 23P	405	605	1559	2333	28.25in 109.2cm	8.25in 21.0cm	18.25in 46.4cm	255.5lbs 116.0kg
5000	8 CH 23PQR	351	605	1866	2333	28.25in 109.2cm	11.25in 28.6cm	18.25in 46.4cm	255.5lbs 116.0kg
5000	8 NS 33P	511	655	2268	2835	28.25in 109.2cm	11.25in 28.6cm	18.25in 46.4cm	351.5lbs 159.5kg
5000	8 CH 33P	694	890	2754	3443	28.25in 109.2cm	11.25in 28.6cm	18.25in 46.4cm	413.5lbs 187.5kg

Special orders and discontinued models available upon request.

All capacities based on specific gravities of 1.280. Reduce capacity 5% for 1.256 specific gravity and 10% for 1.250 specific gravity.



8 CH 33P



FEATURES

- 33% higher cranking capacity at 0°C (32°F)



32 VOLT MODELS

SERIES	MODEL	8 HR RATE	20 HR RATE	CCA @ -17°C (0°F)	CCA @ 0°C (32°F)	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
	ROLLS BATTERY 5000 SERIES: 32 VOLT								
5000	32 CS 15PR	373	478	2027	2534	26.95in 68.5cm	27.00in 68.6cm	20.50in 52.1cm	1040lbs 471.50kg
5000	32 CH 25PR	515	660	2027	2534	33.67in 85.5cm	27.00in 68.6cm	20.50in 52.1cm	1238lbs 561.50kg
5000	32 CH 33PR	687	881	2648	3310	43.00in 109.2cm	27.00in 68.6cm	20.00in 50.8cm	1608lbs 729.50kg
5000	32 CH 35PR	730	936	2814	3518	43.00 in 109.2cm	27.00in 68.6cm	20.00in 50.8cm	1672lbs 758.50kg

Special orders and discontinued models available upon request.
 All capacities based on specific gravities of 1.280. Reduce capacity 5% for 1.256 specific gravity and 10% for 1.250 specific gravity.

OPTIONAL CELL CONNECTION

If a cell replacement is necessary, Rolls Railroad & Diesel Starter models offer a quick solution. As an option, individual modular 2 volt cells can be bolted together, allowing straight-forward replacement or assembly to be done on location.





16 CH 33P

FEATURES

- Widest range of specifications available
- Industry's largest liquid reserve
- Higher crank Amps
- Non-breakable dual-container construction
- Computer-controlled formation
- Environmentally friendly; moisture-tight outer cover
- Load and capacity tested prior to shipping
- 5 year warranty

SAFETY, DURABILITY AND ENVIRONMENTALLY-FRIENDLY DESIGN

Rolls non-breakable dual-container construction virtually eliminates breakage due to rough handling or high stress installations. Individual heat-sealed, modular 2-volt cells are securely connected and self-contained in a high temperature-retardant moisture-tight polypropylene outer case & cover, eliminating the potential for short circuits from water, dirt or falling objects. Should the outer container become punctured or damaged, the protected cells would remain operable with no sulfuric acid spills.

RUGGED PLATE CONSTRUCTION

Rolls tough positive plates are the thickest in the industry and are double insulated for durability & protection. Each plate and its matting are sealed in a non-destructible micro-porous polyethylene envelope, eliminating the possibility of misalignment, cracked separators, or shorting at the bottom or sides.

Rolls superior heavy-duty Rezistox plate design uses fewer but heavier members in the grid structure, offering increased resistance to positive grid corrosion and a higher percentage of oxide paste material and resulting capacity in each plate.

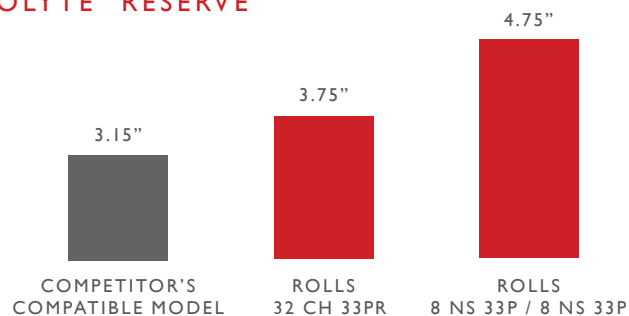
DISTILLED WATER

All flooded lead acid batteries, in the course of normal operation, off-gas hydrogen and oxygen from water in the electrolyte during routine charging. It is important to maintain adequate electrolyte levels in each cell as battery plates must be completely submerged when charging to prevent cell damage. To prevent cell damage, electrolyte levels must be monitored regularly and distilled water should be added as necessary. Each cell should be filled to 1/2" – 1/4" below the vent tube to prevent overflow when the battery is placed on charge.

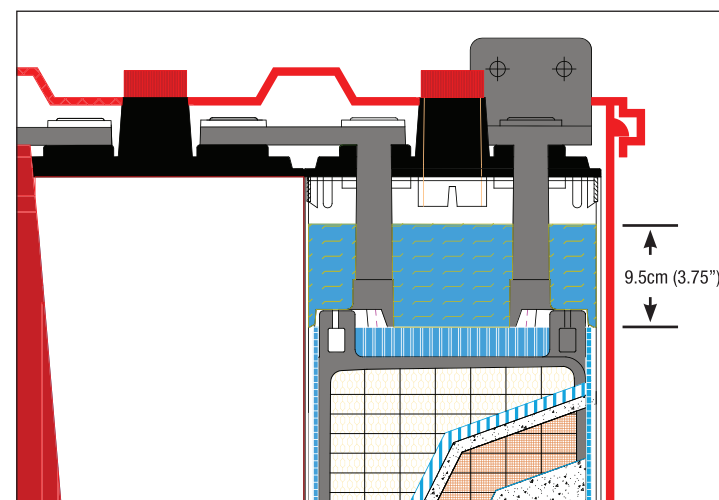
Cold temperatures and extended open circuit stands will cause electrolyte levels to drop. Under these conditions, where electrolyte levels are still above the plates, it is recommended that the batteries be placed on charge for 3 – 6 hours before filling.

Note: If routine specific gravity readings note a gradual decrease or consistently remain 0.10 to 0.020 points below a fully charged state, the programmed charge voltage or time may be too low for the locomotive's work schedule and should be increased. Excessive water consumption indicates the charge voltage may be too high. Charge adjustments should be made in 0.5 volt increments, monitoring the state of charge and specific gravity after each adjustment to determine if an additional changes are necessary.

ELECTROLYTE RESERVE



DESIGNED FOR 180 DAY WATERING INTERVALS



Extended liquid reserves safeguard against cell damage.

Rolls trusted heavy-duty models offer ample liquid reserves to safely meet a 180 day maintenance schedule. Dual-container construction virtually eliminates breakage, cell damage or acid leaks typically caused by rough handling or high-stress installations. Each modular 2 volt cell is securely welded or fully protected in the high temperature-retardant and moisture-tight outer container, preventing short circuits from water, dirt or falling objects.



MODEL CROSS REFERENCE

ROLLS		REPLACES							
MODEL	DESCRIPTION	GE	EXIDE	GNB	CROWN	JMA	EAST PENN	EMD	FIRST NATIONAL
8 HHG 21P	8 HHG 21PR 8V BATTERY				LP-817				
8 HHG 25P	8 HHG 25PR 8V BATTERY				LP-819				
8 HHG 29P	8 HHG 29PR 8V BATTERY				LP-821				
8 HHG 31P	8 HHG 31PR 8V BATTERY				LP-825				
8 CH 17SP	8 CH 17SPR 8V BATTERY		4-LMS-II			JMA-M4513	DL-3000S		4 DS 280
8 CH 17ER	8 CH 17ER 8V BATTERY						DL-3000L		
8 NS 23P	8 NS 23PR 8V BATTERY		4-LMS-325				DL-4000		4 DS 390
8 CH 23P	8 CH 23PR 8V BATTERY	3X9540	4=LMS-420 4=LMS-450	KDZ-270I	MD-517	JMA-M4517	DL-4500		4MIL15DS
8 CH 23PQR	8 CH 23PQR 8V BATTERY								
8 NS 33P	8 NS 33PR 8V BATTERY	40090224					DL-5000 DL-6000		
8 CH 33P	8 CH 33PR 8V BATTERY	84C612573ABPI 3X7884		KDZ-300I	MD-525	JMA-M4525	DL-6500		4MIL25DS
32 CS 15PR	32 CS 15PR 32V BATTERY							40125224 40105253	
32 CH 25PR	32 CH 25PR 32V BATTERY		LMUD-500 16-LMUD-530	KDZ-EM500 KDZ-50I	UD-519	JMA-U519	DL-U500	40020109	
32 CH 33PR	32 CH 33PR 32V BATTERY		LMUD-660	KDZ65I	UD-525	JMA-U525	DL-U650	40084033	
32 CH 35PR	32 CH 35PR 32V BATTERY		16-LUMD-725			JMA-U53I			

Verify dimensions of battery compartment.

CONTACTS

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customerservice@rollsbattery.com

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1-902-597-3767 | 1-800-681-9914
sales@rollsbattery.com

Technical Service

1-902-597-3767 | 1-800-681-9914
support@rollsbattery.com

Technical Support Ticket

support.rollsbattery.com



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