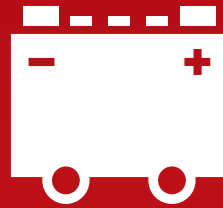




Rolls
BATTERY ENGINEERING

MOTIVE POWER





MOTIVE POWER SERIES

Relied on worldwide, Rolls batteries are internationally recognized for their dependability. It's not just the outstanding quality of the batteries that Rolls are so well-known for but also the continual advances in process, dedicated work force and unrivalled commitment to sustainability.

Rolls



S12-128AGM-RE



8 FS GC



R12-100LFP



12 FS 185-HC

CONTENTS

02	FS Range	10	2-volt Industrial Cells
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FS RANGE

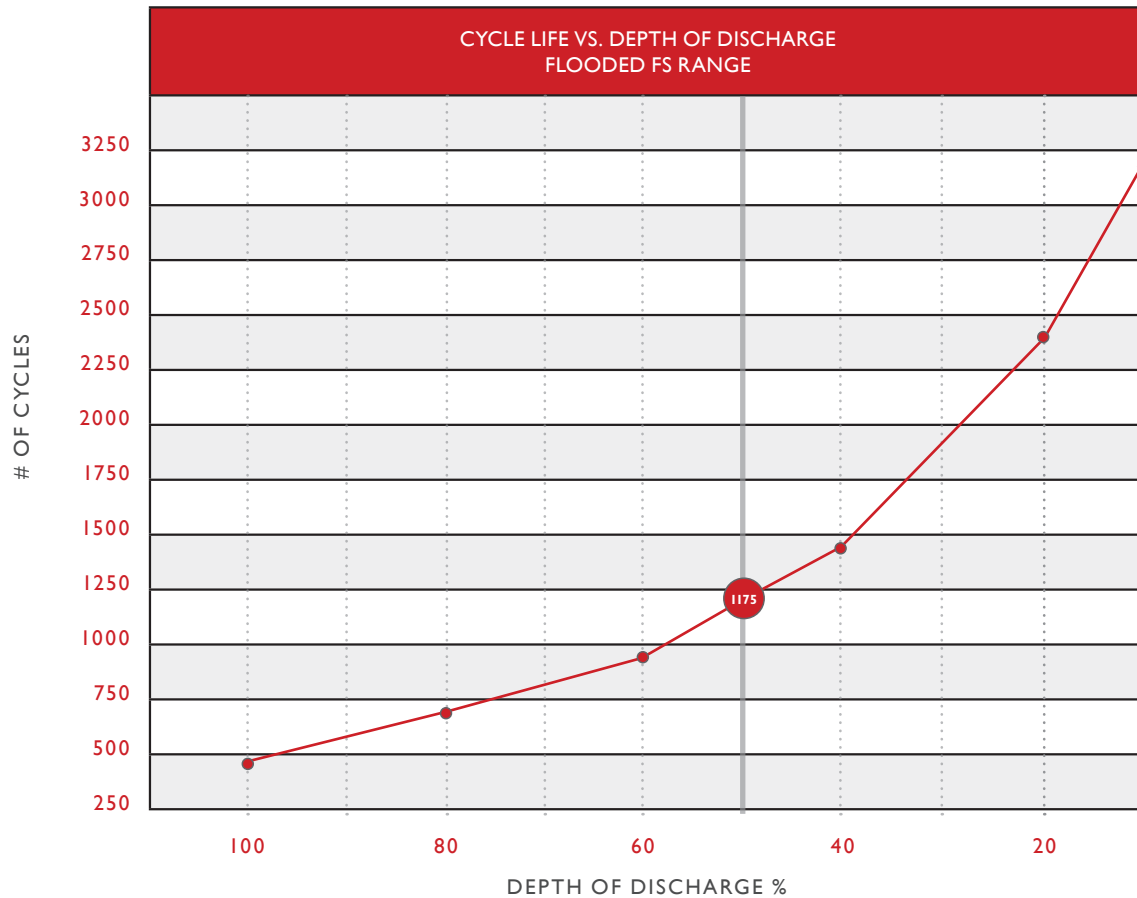
With the ever increasing demand placed on batteries in today's tough markets, reliability is key. Rolls 6V, 8V and 12V models incorporate a new plate design with a larger surface area and higher density paste, providing increased performance for high cycle applications. Powerful and dependable, these popular models provide ample power for floor cleaning equipment, golf cart, electric vehicles, traffic management systems & material handling equipment.



- Quicker & More Efficient Charging
- Improved Cycle Life
- Higher Capacity
- Enhanced PSOC Performance

	MODEL	VOLTAGE	20 HR RATE	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY FS RANGE: 6 VOLT								
✓	6 FS GC	6 V	215	DT	10.19" 25.9cm	7.13" 18.1cm	11" 27.9cm	59.5lbs 27kg
✓	6 FS GC-HC	6 V	235	DT	10.19" 25.9cm	7.13" 18.1cm	11" 27.9cm	64lbs 29kg
✓	6 FS GC-SC	6 V	240	DT	10.19" 25.9cm	7.13" 18.1cm	11" 27.9cm	66lbs 30kg
✓	6 FS I45	6 V	250	DT	10.19" 25.9cm	7.13" 18.1cm	11.4" 29.0cm	70.5lbs 32kg
✓	6 FS GC-DIN	6 V	250	AUTO	9.61" 24.4cm	7.52" 19.1cm	10.59" 26.9cm	70.5lbs 32kg
✓	6 FS 250-SC	6 V	281	DT	11.75" 29.8cm	7.13" 18.1cm	11.25" 28.6cm	88lbs 40kg
✓	6 FS 305-HC	6 V	320	DT	12.25" 31.1cm	7.13" 18.1cm	14.25" 36.2cm	97lbs 44kg
✓	6 FS 305-SC	6 V	360	DT	12.25" 31.1cm	7.13" 18.1cm	14.25" 36.2cm	103lbs 46.5kg
✓	6 FS LI6	6 V	375	DT	12.5" 31.8cm	7.13" 18.1cm	16.75" 42.5cm	112.5lbs 51kg
✓	6 FS LI6-HC	6 V	425	DT	12.5" 31.8cm	7.13" 18.1cm	16.75" 42.5cm	122.5lbs 55.5kg
ROLLS BATTERY FS RANGE: 8 VOLT								
✓	8 FS GC	8 V	155	UTL	10.193" 25.9cm	7.13" 18.1cm	11" 27.9cm	59.5lbs 27kg
✓	8 FS GC-HC	8 V	182	UTL	10.19" 25.9cm	7.13" 18.1cm	11" 27.9cm	65lbs 29.5kg
ROLLS BATTERY FS RANGE: 12 VOLT								
	12 FS 24	12 V	85	DT	11" 27.9cm	6.75" 7.1cm	9.38" 23.8cm	47.5lbs 21.5kg
	12 FS 27	12 V	105	DT	12.63" 32.1cm	6.75" 17.1cm	9.38" 23.8cm	54lbs 24.5kg
	12 FS 31	12 V	125	DT	12.9" 33.0cm	6.75" 17.1cm	9.50" 24.1cm	65lbs 29.5kg
✓	12 FS GC-HC	12 V	155	UTL	13.11" 33.3cm	6.08" 18.2cm	12.0625" 27.4cm	82.6lbs 37.5kg
✓	12 FS I85-HC	12 V	210	DT	15.3" 39.1cm	8.25" 17.8cm	9.43" 36.5cm	134.4lbs 61kg

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.



*Cycle life may vary by application and is affected by frequency of cycling, operating temperature, depth of discharge (%DOD), adherence to manufacturer-recommended charging parameters and proper maintenance.
20 Hr AH (C/20) Rate.



8-FS-GC-HC

FEATURES

- Thicker Positive Plates
- Increased Liquid Reserve
- Greater Rigidity
- Greater Durability
- Less Maintenance





R - SERIES LFP

Rolls high performance 12V & 24V Lithium-Iron-Phosphate (LiFePO₄) batteries provide a compatible drop-in SLA replacement with fast charging/discharging capability, compact case design, 48V connectivity and are up to 50% lighter than equivalent lead-acid battery models.

MODEL	VOLTAGE	RATED CAPACITY [Ah]	RATED CAPACITY [kWh]	BCI	TERMINAL TYPE	LENGTH IN MM	WIDTH IN MM	HEIGHT IN MM	WEIGHT LBS KG
12 VOLT									
R12-100LFP	12.8V	100	1.28 kWh	24	M8	10.24" 260mm	6.69" 170mm	8.3" 211mm	25.4lbs 11.5kg
R12-135LFP	12.8V	135	1.728 kWh	31	M8	13" 330mm	6.81" 173mm	8.62" 219mm	33lbs 15kg
R12-150LFP	12.8V	150	1.92 kWh	31	M8	13" 330mm	6.81" 173mm	8.62" 219mm	34.2lbs 15.5kg
R12-200LFP	12.8V	200	2.56 kWh	49	M8	19.3" 490mm	6.73" 171mm	9.573" 243mm	48.5lbs 22kg
R12-300LFP	12.8V	300	3.84 kWh	8D	M8	20.5" 521mm	10.51" 267mm	8.78" 223mm	72.8lbs 33kg
24 VOLT									
R24-50LFP	25.6V	50	1.28 kWh	24	M8	10.24" 260mm	6.69" 170mm	8.3" 211mm	26.5lbs 12kg
R24-100LFP	25.6V	100	2.56 kWh	49	M8	19.3" 490mm	6.73" 171mm	9.57" 243mm	48.5lbs 22kg
R24-150LFP	25.6V	150	3.84 kWh	8D	M8	20.5" 521mm	10.5" 267mm	8.78" 223mm	73.6lbs 33.5kg

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process.



R12-135LFP



R24-100LFP

R - SERIES SAFETY & CERTIFICATION

- Built-in Battery Management System (BMS)
- Cylindrical LiFePO₄ cells (ULI642)
- IEC62133 (cell), IEC62619(cell), ROHS (cell)
- UN38.3 (cell/pack)
- CE system certification
- IP65 Rating

R - SERIES FEATURES

- Cylindrical LiFePO₄ cells
- Standard-size (BCI) ABS container for easy VRLA AGM replacement
- Lightweight, compact design with standard M8 terminal
- Fast charge/discharge performance
- Maintenance-free operation
- Battery Management System (BMS) for balanced charging & protections
- Connect up to 4 in Series or Parallel for 48V system configuration
- 6000 cycles @ 80% DOD, 3000 cycles @ 100% DOD



R - SERIES LFP

BMS PROTECTIONS
Short-Circuit Protection
Over-Voltage Protection
Low-Voltage Protection
Over-Current Protection
Low-Temperature Protection
Over-Temperature Protection

CONNECTION*		
MODEL	SERIES	PARALLEL
12V MODELS	4	4
24V MODELS	2	4

*Maximum 48V system configuration

Connect up to four (4) 12V models in series for 48V configuration and 12V or 24V models up to four (4) in parallel for increased capacity.

*Refer to Rolls R-Series LFP Battery Operating Manual for detailed instructions.



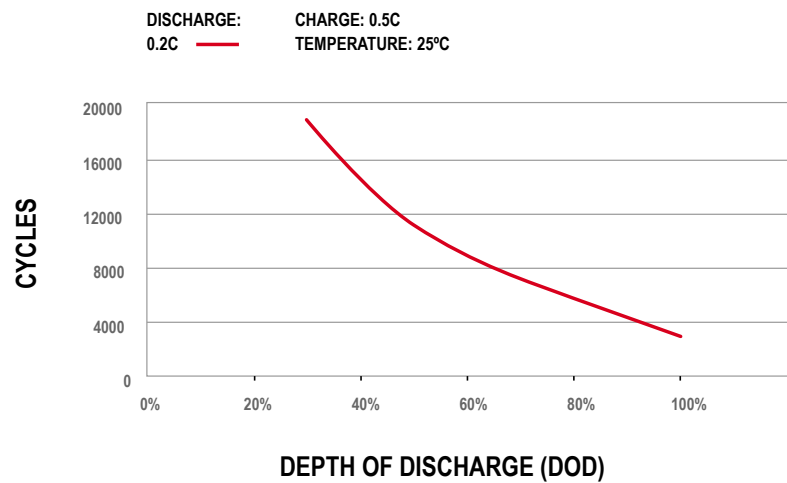
R24-50LFP

OPERATING TEMPERATURE RANGE	
CHARGE	0°C(32°F)~55°C(131°F)
DISCHARGE	-20°C(4°F)~60°C(140°F)
STORAGE	-5°C (23°F)~45°C (113°F)

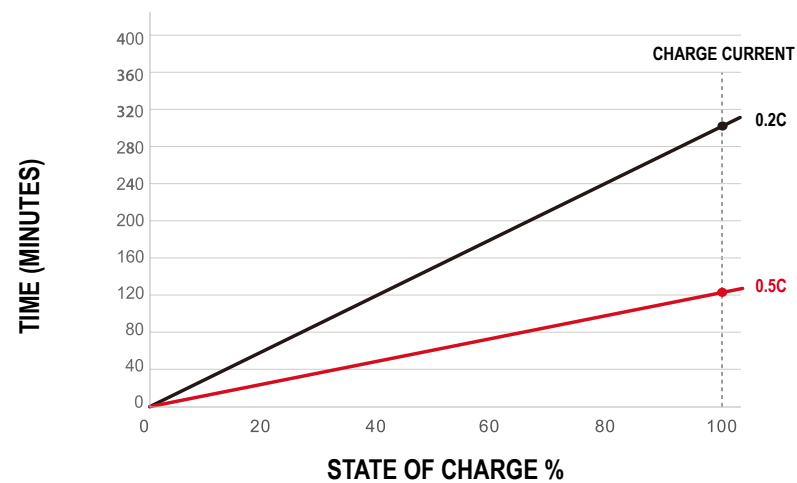


R - S E R I E S L F P

CYCLE LIFE VS DEPTH OF DISCHARGE @ 25°C



CHARGE TIME 0.2C / 0.5C @ 25°C





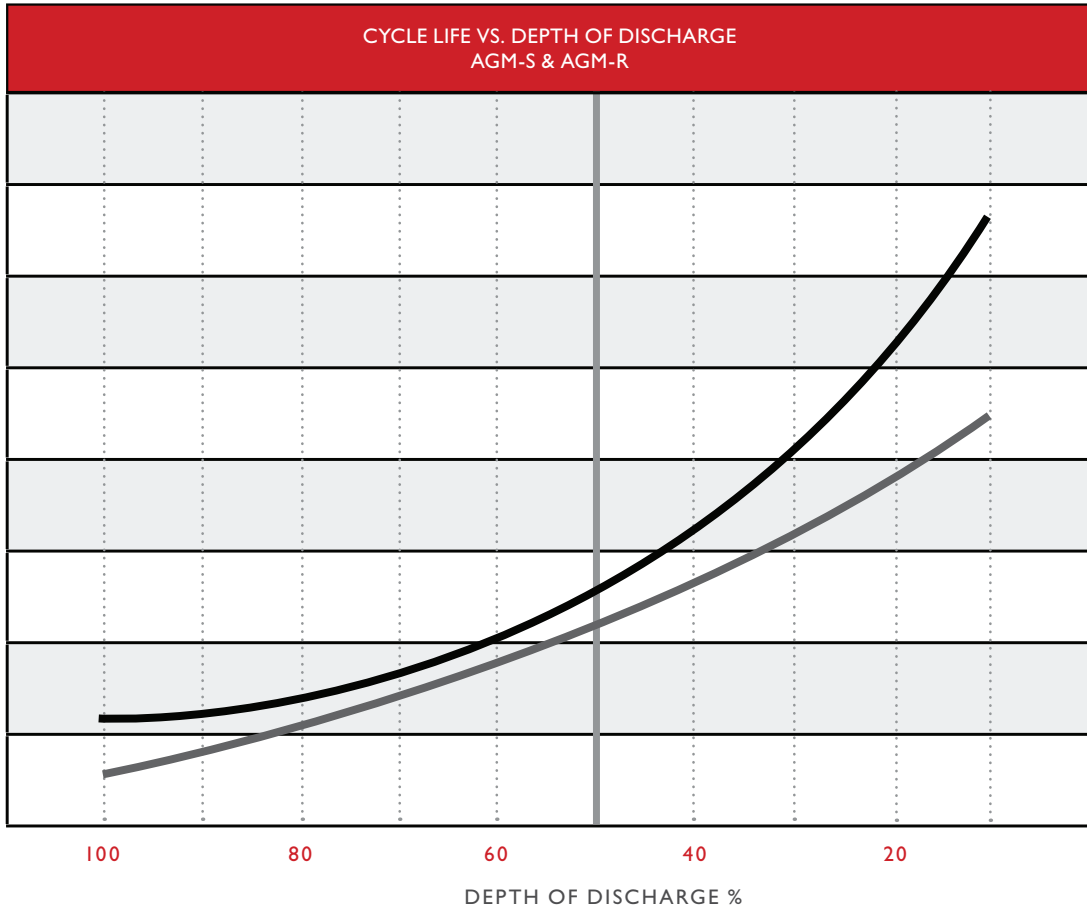
AGM-S & AGM-R

A dual-purpose sealed maintenance free AGM battery. This range offers both outstanding value and performance. The AGM-S & AGM-R product lines offer all of the leading design features associated with Absorbed Glass Mat (AGM) technology, offering the user both a lower self-discharge and an increased acceptance to charge current than conventional flooded wet batteries.

These batteries offer the perfect solution when looking to replace wet batteries or upgrade existing sealed batteries. Fitted with highgrade brass and lead terminals and featuring convenient carry handles. They also make use of a thick plate design and micro porous glass mat separator to deliver a high deep cycle rate and longer life.

MODEL	VOLTAGE	20 HR RATE	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY AGM-S: 6 VOLT							
S6-220AGM-RE	6 V	190	M8-TP8	12.05" 30.6cm	6.61" 16.8cm	8.94" 22.7cm	62lbs 28kg
S6-245AGM-RE	6 V	220	M8-TP8	10.24" 26cm	7.09" 18.0cm	10.4" 26.4cm	64lbs 29kg
S6-260AGM-RE	6 V	234	M8-TP8	12.04" 30.6cm	6.61" 16.8cm	8.94" 22.7cm	70.5lbs 32kg
S6-275AGM-RE	6 V	250	M8-TP8	10.31" 26.2cm	7.13" 18.1cm	11.06" 28.1cm	76lbs 34.5kg
S6-370AGM-RE	6 V	335	DT	11.61" 29.5cm	7.05" 17.9cm	14.37" 36.5cm	106lbs 48kg
S6-460AGM-RE	6 V	415	DT-M10	11.61" 29.5cm	7.05" 17.9cm	16.69" 42.4cm	126lbs 57kg
ROLLS BATTERY AGM-S: 8 VOLT							
S8-200AGM-RE	8 V	170	DT	10.24" 26cm	7.17" 18.2cm	12.36" 31.4cm	76lbs 34.5kg
S8-230AGM-RE	8 V	200	DT	10.24" 26cm	7.17" 18.2cm	12.36" 31.4cm	84lbs 38kg
ROLLS BATTERY AGM-S: 12 VOLT							
S12-95AGM-RE	12 V	85	DT	10.24" 26cm	6.65" 16.9cm	9.33" 23.7cm	50.5lbs 23kg
S12-116AGM-RE	12 V	105	DT	12.09" 30.7cm	6.65" 16.9cm	9.33" 23.7cm	66lbs 30kg
S12-128AGM-RE	12 V	115	DT	12.91" 32.8cm	6.89" 17.5cm	9.33" 23.7cm	70.5lbs 32kg
S12-160AGM-RE	12 V	145	DT	13.43" 34.1cm	6.77" 17.2cm	12.17" 30.9cm	97lbs 44kg
S12-230AGM-RE	12 V	210	LT	20.87" 53.0cm	8.23" 20.9cm	9.41" 23.9cm	133.5lbs 61.5kg
S12-240AGM-RE	12 V	215	DT	15" 38.1cm	7.01" 17.8cm	14.61" 37.1cm	140lbs 63.5kg
S12-290AGM-RE	12 V	260	LT	20.51" 52.1cm	10.59" 26.9cm	9.65" 24.5cm	163lbs 74kg
ROLLS BATTERY AGM-R: 12 VOLT							
R12-80AGM	12 V	80	DT	10.24" 26cm	6.65" 16.9cm	9.33" 23.7cm	50.5lbs 23kg
R12-100AGM	12 V	100	DT	12.05" 30.7cm	6.65" 16.9cm	9.33" 23.7cm	59.5lbs 27kg
R12-110AGM	12 V	110	DT	12.91" 32.8cm	6.77" 17.2cm	8.66" 22.0cm	66lbs 30kg
R12-200AGM	12 V	200	M8-TP08	20.55" 52.2cm	9.45" 24cm	8.82" 22.4cm	132.5lbs 60kg
R12-260AGM	12 V	260	M8-TP08	20.55" 52.2cm	10.55" 26.8cm	8.82" 22.4cm	161lbs 73kg

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.



■ AGM-S
6 & 12 VOLTS

■ AGM-R
12 VOLTS









S12-240AGM-RE

AGM FEATURES

- Sealed construction
- New high-density active paste
- Heavy-duty thick plates
- ABS case and cover
- Superior corrosion resistance
- Maintenance free, spill-proof/leak-proof
- Self regulating pressure release valves
- Low self discharge rate, only 3%/month
- Faster recharging time

ROLLS AGM TERMINAL CONFIGURATIONS

					
Post Terminal	DT (Dual Terminal)	LT (Lug Terminal)	M8 (Stud)	M8	TP08 (Brass Post)

Terminal Connections for AGM-S & AGM-R models.



2-VOLT INDUSTRIAL CELLS



CS PLATE

Rolls 2-volt industrial cells deliver exceptional performance, cycling ability and value. Available as stand-alone cells or assembled and shipped in custom or standard-sized steel or plastic trays, Rolls offers a wide range of plate types and quantities (5 to 33 plates/cell) to meet the capacity requirements of most industrial applications. High-quality construction, industry-leading features and durability maintain our reputation as one of the best industrial battery manufacturers.



- Quicker & More Efficient Charging
- Improved Cycle Life
- Higher Capacity
- Enhanced PSOC Performance

MODEL	VOLTAGE	8 HR RATE	FINISH RATE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY 50 AH PER POSITIVE-TYPE CS RESISTOX PLATE: 2 VOLT							
CS 5	2 V	123	5	6.09" 15.47cm	2.06" 5.24cm	14.62" 37.15cm	20lbs 9.07kg
CS 7	2 V	184	8	6.09" 15.47cm	2.75" 6.88cm	14.62" 37.15cm	27lbs 12.25kg
CS 9	2 V	246	10	6.09" 15.47cm	3.5" 8.75cm	14.62" 37.15cm	35lbs 15.88kg
CS 11	2 V	307	13	6.09" 15.47cm	4.25" 10.80cm	14.62" 37.15cm	43lbs 19.50kg
CS 13	2 V	369	15	6.09" 15.47cm	5" 12.50cm	14.62" 37.15cm	50lbs 22.68kg
CS 15	2 V	430	18	6.25" 15.63cm	5.75" 14.38cm	14.62" 37.15cm	58lbs 26.31kg
CS 17	2 V	492	20	6.25" 15.63cm	6.5" 16.25cm	14.62" 37.15cm	67lbs 30.39kg
CS 19	2 V	553	23	6.25" 15.63cm	7.25" 18.13cm	14.62" 37.15cm	75lbs 34.02kg
CS 21	2 V	615	25	6.25" 15.63cm	8" 20.32cm	14.62" 37.15cm	82lbs 37.19kg
CS 23	2 V	676	28	6.25" 15.63cm	8.75" 21.88cm	14.62" 37.15cm	90lbs 40.82kg
CS 25	2 V	738	30	6.25" 15.63cm	9.5" 23.75cm	14.62" 37.15cm	97lbs 44.00kg
CS 27	2 V	799	33	6.25" 15.63cm	10.25" 25.63cm	14.62" 37.15cm	105lbs 47.63kg
CS 29	2 V	860	35	6.25" 15.63cm	11" 27.50cm	14.62" 37.15cm	114lbs 51.71kg
CS 31	2 V	922	38	6.25" 15.63cm	11.75" 29.38cm	14.62" 37.15cm	122lbs 55.34kg
CS 33	2 V	983	40	6.25" 15.63cm	12.5" 31.75cm	14.62" 37.15cm	129lbs 58.61kg

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.



ES PLATE

MODEL	VOLTAGE	8 HR RATE	FINISH RATE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY 60 AH PER POSITIVE-TYPE ES RESISTOX PLATE: 2 VOLT							
ES 5	2 V	144	6	6.09" 15.47cm	2.06" 5.24cm	15.62" 39.69cm	22lbs 9.98kg
ES 7	2 V	216	9	6.09" 15.47cm	2.75" 6.88cm	15.62" 39.69cm	30lbs 13.61kg
ES 9	2 V	288	12	6.09" 15.47cm	3.5" 8.75cm	15.62" 39.69cm	39lbs 17.69kg
ES 11	2 V	360	15	6.09" 15.47cm	4.25" 10.80cm	15.62" 39.69cm	47lbs 21.32kg
ES 13	2 V	433	18	6.09" 15.47cm	5" 12.50cm	15.62" 39.69cm	56lbs 25.40kg
ES 15	2 V	505	21	6.25" 15.63cm	5.75" 14.38cm	15.62" 39.69cm	64lbs 29.03kg
ES 17	2 V	577	24	6.25" 15.63cm	6.5" 16.25cm	15.62" 39.69cm	74lbs 33.57kg
ES 19	2 V	650	27	6.25" 15.63cm	7.25" 18.13cm	15.62" 39.69cm	83lbs 37.65kg
ES 21	2 V	722	30	6.25" 15.63cm	8" 20.32cm	15.62" 39.69cm	91lbs 41.28kg
ES 23	2 V	794	33	6.25" 15.63cm	8.75" 21.88cm	15.62" 39.69cm	100lbs 45.36kg
ES 25	2 V	867	36	6.25" 15.63cm	9.5" 23.75cm	15.62" 39.69cm	108lbs 48.99kg
ES 27	2 V	939	39	6.25" 15.63cm	10.25" 25.63cm	15.62" 39.69cm	116lbs 52.62kg
ES 29	2 V	1011	42	6.25" 15.63cm	11" 27.50cm	15.62" 39.69cm	126lbs 57.15kg
ES 31	2 V	1084	45	6.25" 15.63cm	11.75" 29.38cm	15.62" 39.69cm	135lbs 61.23kg
ES 33	2 V	1156	48	6.25" 15.63cm	12.5" 31.75cm	15.62" 39.69cm	143lbs 64.92kg



2-VOLT INDUSTRIAL CELLS IN CUSTOM STEEL TRAYS

FEATURES

- Heavy-duty reinforced positive grids
- High-density coarse oxide active material
- High-temperature, high-impact jar
- 5 to 33 plate configurations to meet a variety of capacity needs

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.



2 VOLT INDUSTRIAL CELLS



GS PLATE

The heart of any battery is the positive plate. The plates in a Rolls single cell have rugged vertical and horizontal main members for maximum strength and durability. The active plate material is manufactured from a dense coarse oxide which is specially formulated for maximum performance throughout the battery's life.

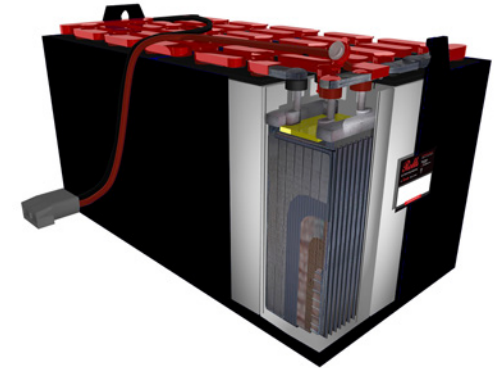
MODEL	VOLTAGE	8 HR RATE	FINISH RATE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY 70 AH PER POSITIVE-TYPE GS RESISTOX PLATE: 2 VOLT							
GS 5	2 V	166	7	6.09" 15.47cm	2.06" 5.24cm	17.75" 45.09cm	21lbs 9.53kg
GS 7	2 V	250	11	6.09" 15.47cm	2.75" 6.88cm	17.75" 45.09cm	29lbs 13.15kg
GS 9	2 V	334	14	6.09" 15.47cm	3.5" 8.75cm	17.75" 45.09cm	37lbs 16.78kg
GS 11	2 V	418	18	6.09" 15.47cm	4.25" 10.80cm	17.75" 45.09cm	45lbs 20.41kg
GS 13	2 V	502	21	6.09" 15.47cm	5" 12.50cm	17.75" 45.09cm	530lbs 24.04kg
GS 15	2 V	586	25	6.25" 15.63cm	5.75" 14.38cm	17.75" 45.09cm	61lbs 27.67kg
GS 17	2 V	670	28	6.25" 15.63cm	6.5" 16.25cm	17.75" 45.09cm	70lbs 31.75kg
GS 19	2 V	754	32	6.25" 15.63cm	7.25" 18.13cm	17.75" 45.09cm	78lbs 35.38kg
GS 21	2 V	838	35	6.25" 15.63cm	8" 20.32cm	17.75" 45.09cm	86lbs 39.01kg
GS 23	2 V	922	39	6.25" 15.63cm	8.75" 21.88cm	17.75" 45.09cm	95lbs 43.09kg
GS 25	2 V	1006	42	6.25" 15.63cm	9.5" 23.75cm	17.75" 45.09cm	103lbs 46.72kg
GS 27	2 V	1090	46	6.25" 15.63cm	10.25" 25.63cm	17.75" 45.09cm	111lbs 50.35kg
GS 29	2 V	1174	49	6.25" 15.63cm	11" 27.50cm	17.75" 45.09cm	120lbs 54.43kg
GS 31	2 V	1258	53	6.25" 15.63cm	11.75" 29.38cm	17.75" 45.09cm	128lbs 58.064kg
GS 33	2 V	1342	56	6.25" 15.63cm	12.5" 31.75cm	17.75" 45.09cm	136lbs 61.69kg

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.



KS PLATE

MODEL	VOLTAGE	8 HR RATE	FINISH RATE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY 85 AH PER POSITIVE-TYPE KS RESISTOX PLATE: 2 VOLT							
KS 5	2 V	200	9	6.09" 15.47cm	2.06" 5.24cm	20.5" 52.07cm	30lbs 13.61kg
KS 7	2 V	300	13	6.09" 15.47cm	2.75" 6.88cm	20.5" 52.07cm	40lbs 18.14kg
KS 9	2 V	400	17	6.09" 15.47cm	3.5" 8.75cm	20.5" 52.07cm	51lbs 23.13kg
KS 11	2 V	500	21	6.09" 15.47cm	4.25" 10.80cm	20.5" 52.07cm	63lbs 28.58kg
KS 13	2 V	600	26	6.09" 15.47cm	5" 12.50cm	20.5" 52.07cm	74lbs 33.57kg
KS 15	2 V	700	30	6.25" 15.63cm	5.75" 14.38cm	20.5" 52.07cm	85lbs 38.56kg
KS 17	2 V	800	34	6.25" 15.63cm	6.5" 16.25cm	20.5" 52.07cm	86lbs 44.45kg
KS 19	2 V	900	38	6.25" 15.63cm	7.25" 18.13cm	20.5" 52.07cm	109lbs 49.44kg
KS 21	2 V	1000	43	6.25" 15.63cm	8" 20.32cm	20.5" 52.07cm	121lbs 54.88kg
KS 23	2 V	1100	47	6.25" 15.63cm	8.75" 21.88cm	20.5" 52.07cm	132lbs 59.87kg
KS 25	2 V	1200	51	6.25" 15.63cm	9.5" 23.75cm	20.5" 52.07cm	143lbs 64.86kg
KS 27	2 V	1300	55	6.25" 15.63cm	10.25" 25.63cm	20.5" 52.07cm	155lbs 70.31kg
KS 29	2 V	1400	60	6.25" 15.63cm	11" 27.50cm	20.5" 52.07cm	167lbs 75.75kg
KS 31	2 V	1500	64	6.25" 15.63cm	11.75" 29.38cm	20.5" 52.07cm	178lbs 80.74kg
KS 33	2 V	1600	688	6.25" 15.63cm	12.5" 31.75cm	20.5" 52.07cm	189lbs 85.73kg



Available in custom steel or plastic trays with standard posts or plug'n play connections, fully assembled & quality tested with bolt-together or welded cell assembly.

FEATURES

- Heavy-duty reinforced positive grids
- High-density coarse oxide active material
- High-temperature, high-impact jar
- High-capacity 2 volt cells

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.



2-VOLT INDUSTRIAL CELLS

OS PLATE



MODEL	VOLTAGE	8 HR RATE	FINISH RATE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY 90 AH PER POSITIVE-TYPE OS RESISTOX PLATE: 2 VOLT							
OS 5	2 V	210	9	6.09" 15.47cm	2.06" 5.24cm	21" 53.34cm	24lbs 10.86kg
OS 7	2 V	315	14	6.09" 15.47cm	2.75" 6.88cm	21" 53.34cm	347lbs 15.42kg
OS 9	2 V	420	18	6.09" 15.47cm	3.5" 8.75cm	21" 53.34cm	43lbs 19.50kg
OS 11	2 V	525	23	6.09" 15.47cm	4.25" 10.80cm	21" 53.34cm	52lbs 23.59kg
OS 13	2 V	630	27	6.09" 15.47cm	5" 12.50cm	21" 53.34cm	61lbs 27.67kg
OS 15	2 V	735	32	6.25" 15.63cm	5.75" 14.38cm	21" 53.34cm	70lbs 31.75kg
OS 17	2 V	841	36	6.25" 15.63cm	6.5" 16.25cm	21" 53.34cm	81lbs 36.74kg
OS 19	2 V	946	41	6.25" 15.63cm	7.25" 18.13cm	21" 53.34cm	90lbs 40.82kg
OS 21	2 V	1051	45	6.25" 15.63cm	8" 20.32cm	21" 53.34cm	99lbs 44.91kg
OS 23	2 V	1156	50	6.25" 15.63cm	8.75" 21.88cm	21" 53.34cm	108lbs 48.99kg
OS 25	2 V	1261	54	6.25" 15.63cm	9.5" 23.75cm	21" 53.34cm	118lbs 53.52kg
OS 27	2 V	1366	59	6.25" 15.63cm	10.25" 25.63cm	21" 53.34cm	1275lbs 57.613kg
OS 29	2 V	1471	63	6.25" 15.63cm	11" 27.50cm	21" 53.34cm	1374lbs 62.141kg
OS 31	2 V	1576	68	6.25" 15.63cm	11.75" 29.38cm	21" 53.34cm	147lbs 66.68kg
OS 33	2 V	1681	72	6.25" 15.63cm	12.5" 31.75cm	21" 53.34cm	1569lbs 70.76kg

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.



YS PLATE

MODEL	VOLTAGE	8 HR RATE	FINISH RATE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY 125 AH PER POSITIVE-TYPE YS RESISTOX PLATE: 2 VOLT							
YS 5	2 V	290	13	6.09" 15.47cm	2.06" 5.24cm	28" 71.12cm	29lbs 13.15kg
YS 7	2 V	435	19	6.09" 15.47cm	2.75" 6.88cm	28" 71.12cm	41lbs 18.60kg
YS 9	2 V	579	25	6.09" 15.47cm	3.5" 8.75cm	28" 71.12cm	53lbs 24.04kg
YS 11	2 V	724	31	6.09" 15.47cm	4.25" 10.80cm	28" 71.12cm	64lbs 29.03kg
YS 13	2 V	869	38	6.09" 15.47cm	5" 12.50cm	28" 71.12cm	76lbs 34.47kg
YS 15	2 V	1014	44	6.25" 15.63cm	5.75" 14.38cm	28" 71.12cm	88lbs 39.92kg
YS 17	2 V	1159	50	6.25" 15.63cm	6.5" 16.25cm	28" 71.12cm	101lbs 45.81kg
YS 19	2 V	1304	56	6.25" 15.63cm	7.25" 18.13cm	28" 71.12cm	112lbs 50.805kg
YS 21	2 V	1449	63	6.25" 15.63cm	8" 20.32cm	28" 71.12cm	124lbs 56.25kg
YS 23	2 V	1593	67	6.25" 15.63cm	8.75" 21.88cm	28" 71.12cm	1360lbs 61.696kg
YS 25	2 V	1738	73	6.25" 15.63cm	9.5" 23.75cm	28" 71.12cm	1478lbs 66.86kg
YS 27	2 V	1883	79	6.25" 15.63cm	10.25" 25.63cm	28" 71.12cm	159lbs 72.12kg
YS 29	2 V	2028	86	6.25" 15.63cm	11" 27.50cm	28" 71.12cm	171lbs 77.561kg
YS 31	2 V	2173	92	6.25" 15.63cm	11.75" 29.38cm	28" 71.12cm	183lbs 83.01kg
YS 33	2 V	2318	98	6.25" 15.63cm	12.5" 31.75cm	28" 71.12cm	195lbs 88.45kg



FEATURES

- Heavy-duty reinforced positive grids
- High-density coarse oxide active material
- High-temperature, high-impact jar
- High-capacity 2 volt cells

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.



WARRANTY

Rolls deep cycle battery lines are backed with comprehensive, non-transferable warranties that lead the industry in length of coverage against manufacture defect. We're confident that our batteries will perform time after time, year after year. However, should a problem arise, you may be assured that you're covered better than any other battery warranty in the business.

WARRANTY TERMS		
BATTERY	APPLICATION	WARRANTY PERIOD
FLOODED FS RANGE & 2-VOLT INDUSTRIAL CELLS		
FS RANGE 6V, 8V & 12V	MOTIVE POWER	12 MONTHS 1 YEAR
5 TO 7 PLATE INDUSTRIAL	MOTIVE POWER	12 MONTHS 1 YEAR
9 TO 33 PLATE INDUSTRIAL	MOTIVE POWER	36 MONTHS 3 YEARS
LFP		
R-SERIES	MOTIVE POWER	36 MONTHS 3 YEARS
AGM		
AGM-S	MOTIVE POWER	12 MONTHS 1 YEAR
AGM-R	MOTIVE POWER	12 MONTHS 1 YEAR

For full warranty terms & conditions, visit www.rollsbattery.com





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