

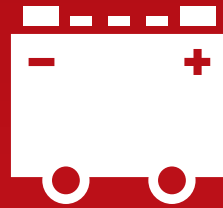


*Rolls*  
BATTERY ENGINEERING

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**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

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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.

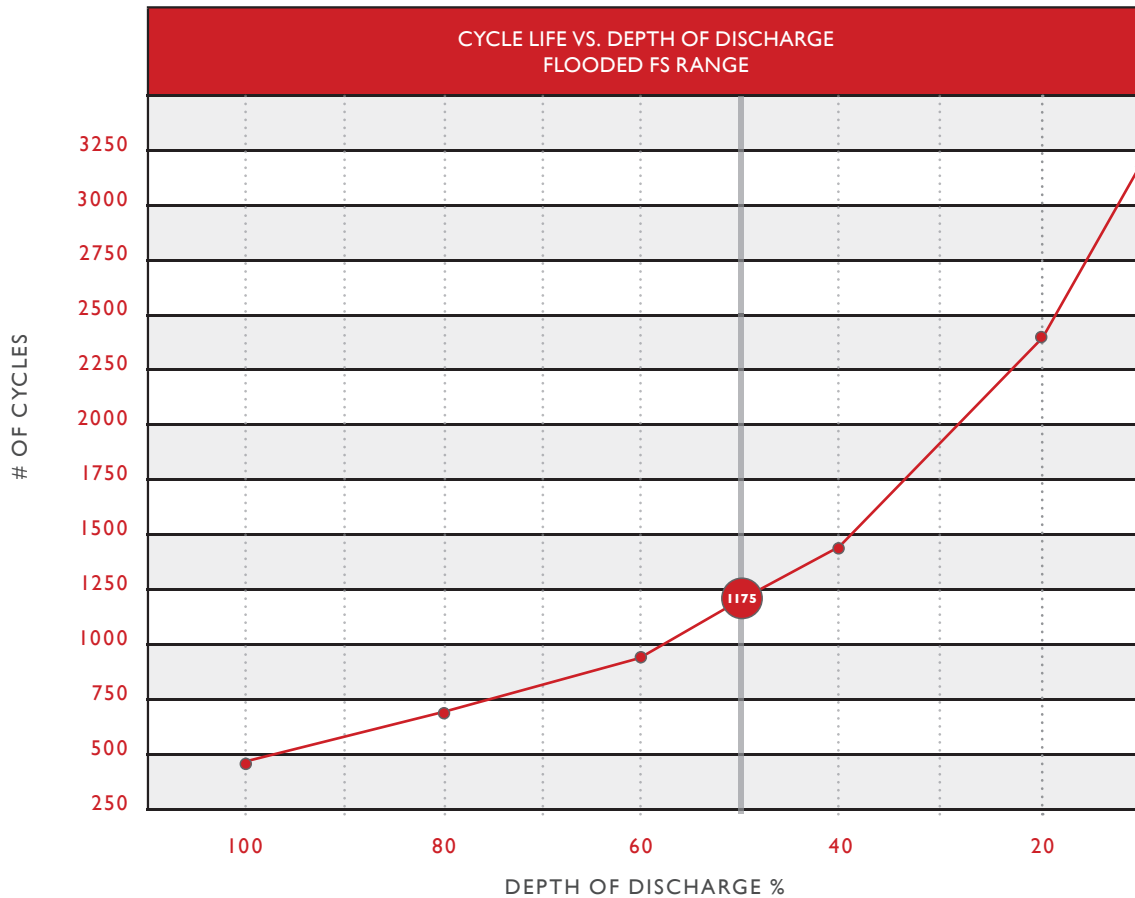


- Quicker & More Efficient Charging
- Improved Cycle Life
- Higher Capacity
- Enhanced PSOC Performance

 ADVANCED NAM	MODEL	VOLTAGE	20 HR RATE	TERMINAL TYPE	LENGTH IN   CM	WIDTH IN   CM	HEIGHT IN   CM	WEIGHT LBS   KG
<b>ROLLS BATTERY FS RANGE: 6 VOLT</b>								
✓	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
<b>ROLLS BATTERY FS RANGE: 8 VOLT</b>								
✓	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
<b>ROLLS BATTERY FS RANGE: 12 VOLT</b>								
	12 FS 24	12 V	85	DT	11"   27.9cm	6.75"   17.1cm	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 R-Series Lithium-Iron-Phosphate (LiFePO<sub>4</sub>) batteries provide a compatible drop-in SLA replacement with fast charging/discharging capability, compact case design, up to 48V connectivity, and are up to 50% lighter than equivalent lead-acid battery models.

Offered in popular GC2, G31, 4D & 8D case sizes with a range of capacity options, R-Series Motive Power LiFePO<sub>4</sub> batteries allow seamless SLA replacement in a wide range of industrial and recreational vehicles including golf carts, floor scrubbers and scissor lifts.

R-Series 36V & 48V LFP models may be connected up to 6 in parallel for increased capacity.

Two 48V custom models are also available with durable custom metal case construction designed specifically for golf cart & light EV applications.

Rolls R-Series LFP models are backed by a 3-year warranty.

MODEL	VOLTAGE	RATED CAPACITY [Ah]	RATED CAPACITY [kWh]	BCI	TERMINAL TYPE	LENGTH IN   MM	WIDTH IN   MM	HEIGHT IN   MM	WEIGHT LBS   KG
<b>12 VOLT</b>									
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
<b>24 VOLT</b>									
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
<b>36 VOLT</b>									
R36-52LFP	38.4V	52	2.00 kWh	31	M8	13"   330mm	6.81"   173mm	8.62"   219mm	36.40lbs   16.5kg
R36-60LFP	38.4V	60	2.30 kWh	31	M8	13"   330mm	6.81"   173mm	8.62"   219mm	37.50lbs   17kg
R36-65LFP	38.4V	65	2.50 kWh	31	M8	13"   330mm	6.81"   173mm	8.62"   219mm	37.50lbs   17kg
R36-100LFP	38.4V	100	3.84 kWh	4D	M8	20.5"   521mm	9.37"   238mm	8.7"   221mm	68.30lbs   31kg
R12-120LFP	38.4V	120	4.61 kWh	4D	M8	20.5"   521mm	9.37"   238mm	8.7"   221mm	72.80lbs   33kg
<b>48 VOLT</b>									
R48-32LFP	51.2V	32	1.64 kWh	GC2	M8	10.24"   260mm	7.09"   180mm	10.75"   273mm	30.40lbs   13.8kg
R48-35LFP	51.2V	35	1.79 kWh	GC2	M8	10.24"   260mm	7.09"   180mm	10.75"   273mm	33.00lbs   15kg
R48-105LFP	51.2V	105	5.38 kWh	8D	M8	20.5"   521mm	10.51"   267mm	8.78"   223mm	88.20lbs   40kg
R48-105EV-LFP A	51.2V	105	5.38 kWh	METAL	M8	15.9"   404mm	12.75"   324mm	9.84"   250mm	99.20lbs   45kg
R48-105EV-LFP B	51.2V	105	5.38 kWh	METAL	M8	20.4"   519mm	9.84"   250mm	10.43"   265mm	99.20lbs   45kg



R12-135LFP

## R - SERIES SAFETY & CERTIFICATION

- Built-in Battery Management System (BMS)
- Cylindrical LiFePO<sub>4</sub> cells (UL1642)
- IEC62133 (cell), IEC62619(cell), ROHS (cell)
- UN38.3 (cell/pack)
- CE system certification
- IP65 Rating



R48-105EV-LFP B

## R - SERIES FEATURES

- Cylindrical LiFePO<sub>4</sub> cells
- Standard-size (BC1) 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 four (4) 12V or two (2) 24V models in Series for 48V configuration, and up to four (4) Parallel strings for increased capacity
- Connect up to six (6) 36V or 48V models in parallel for increased capacity
- 6000 cycles @ 80% DOD, 3000 cycles @ 100% DOD
- 3 year warranty

## R - SERIES LFP

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

CONNECTION*		
MODEL	SERIES	PARALLEL
12V MODELS	4	4
24V MODELS	2	4
36V MODELS	1	6
48V MODELS	1	6

- 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.
- Connect up to six (6) 36V or 48V models in parallel for increased capacity.

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



R48-32LFP

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)







## S - SERIES LFP

Adding to the performance, features and operating protections of the R-Series LFP models, the new S-Series 12V & 24V LFP drop-in replacements incorporate a number of additional features and capabilities including an integrated screen with controls, visual state-of-charge indication, external fuse access and heating for cold temperature operation.

Rolls S-Series LFP models are backed by a 5-year warranty

MODEL	VOLTAGE	RATED CAPACITY [Ah]	RATED CAPACITY [kWh]	BCI	TERMINAL TYPE	LENGTH IN   MM	WIDTH IN   MM	HEIGHT IN   MM	WEIGHT LBS   KG
<b>12 VOLT</b>									
S12-100LFP	12.8V	100	1.28 kWh	24	M8	10.47"   266mm	6.97"   177mm	9.25"   235mm	26.5lbs   12kg
S12-135LFP	12.8V	135	1.728 kWh	31	M8	13.07"   332mm	6.73"   171mm	8.94"   227mm	34.2lbs   15.5kg
S12-150LFP	12.8V	150	1.92 kWh	31	M8	13.07"   332mm	6.73"   171mm	8.94"   227mm	35.3lbs   16kg
S12-200LFP	12.8V	200	2.56 kWh	49	M8	19.88"   505mm	7.28"   185mm	9.57"   243mm	50.7lbs   23kg
S12-300LFP	12.8V	300	3.84 kWh	8D	M8	20.55"   522mm	10.55"   268mm	9.45"   240mm	75lbs   34kg
<b>24 VOLT</b>									
S24-50LFP	25.6V	50	1.28 kWh	24	M8	10.47"   266mm	6.97"   177mm	9.25"   235mm	27.6lbs   12.5kg
S24-100LFP	25.6V	100	2.56 kWh	49	M8	19.88"   505mm	7.28"   185mm	9.57"   243mm	51.8lbs   23.5kg
S24-150LFP	25.6V	150	3.84 kWh	8D	M8	20.55"   522mm	10.55"   268mm	9.45"   240mm	76lbs   34.5kg

Product measurements & weights are calculated based on sample data. Height includes terminal & fuse holder. To enable fuse and case access, battery maximum dimensions have increased. However, product footprints match the R-Series equivalent case sizes. Individual specifications are subject to vary due to the manufacturing process.

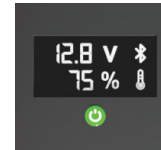




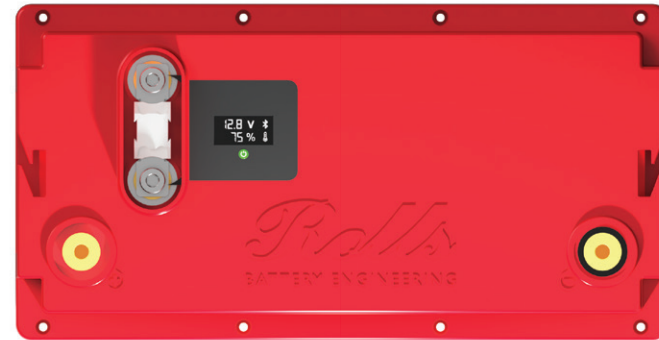
S12-100LFP

## S - SERIES SAFETY & CERTIFICATION

- Built-in Battery Management System (BMS)
- Cylindrical LiFePO<sub>4</sub> cells (UL1642)
- IEC62133 (cell), IEC62619(cell), ROHS (cell)
- UN38.3 (cell/pack)
- CE system certification
- IP65 Rating



- Display & Integrated Controls
- Visual State-of-Charge (SOC)
- External Fuse Access
- Internal Heating



S12-150LFP shown with fuse holder access cover removed.

## S - SERIES FEATURES

R-Series LFP voltage, capacity, features & operating protections, plus;

- Display with visual state-of-charge (SOC) indicator & integrated controls
- Internal heating for -20°C(-4°F)~0°C(32°F) charging
- Bluetooth connectivity & dedicated Rolls LFP Connect App
- External fuse access
- Connect in series for 48V system configuration with up to 4 parallel strings, and up to 6 in parallel with no series connection
- 6000 cycles @ 80% DOD, 3000 cycles @ 100% DOD
- 5 year warranty



## S - SERIES LFP

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

CONNECTION*		
MODEL	SERIES	PARALLEL
12V MODELS	4	4
24V MODELS	2	4
36V MODELS	1	6
48V MODELS	1	6

- Connect up to four (4) 12V models or two (2) 24V models in series for 48V configuration, and up to four (4) in parallel 48V strings for increased capacity.
- Connect up to six (6) 12V models or six (6) 24V models in parallel for increased capacity with no series connection.

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



S12-200LFP

OPERATING TEMPERATURE RANGE	
CHARGE	* -20°C (-4°F)~65°C (149°F)
DISCHARGE	-20°C (-4°F)~60°C (140°F)
STORAGE	-5°C (23°F)~45°C (113°F)

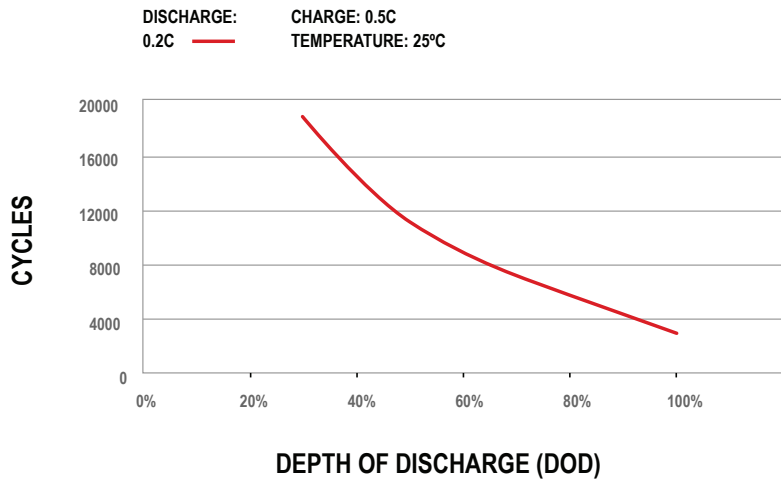
\*S-Series LFP models feature internal heating for -20°C (-4°F)~0°C (32°F) charging capability



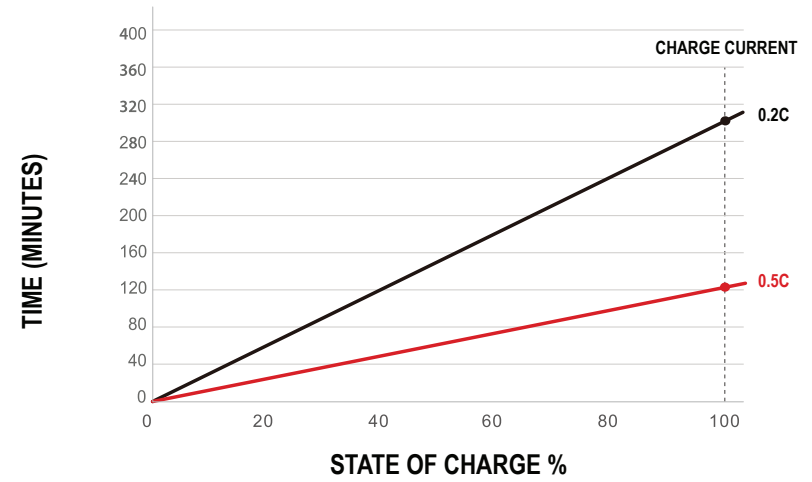


## R-SERIES & S-SERIES LFP

### CYCLE LIFE VS DEPTH OF DISCHARGE @ 25°C



### CHARGE TIME 0.2C / 0.5C @ 25°C





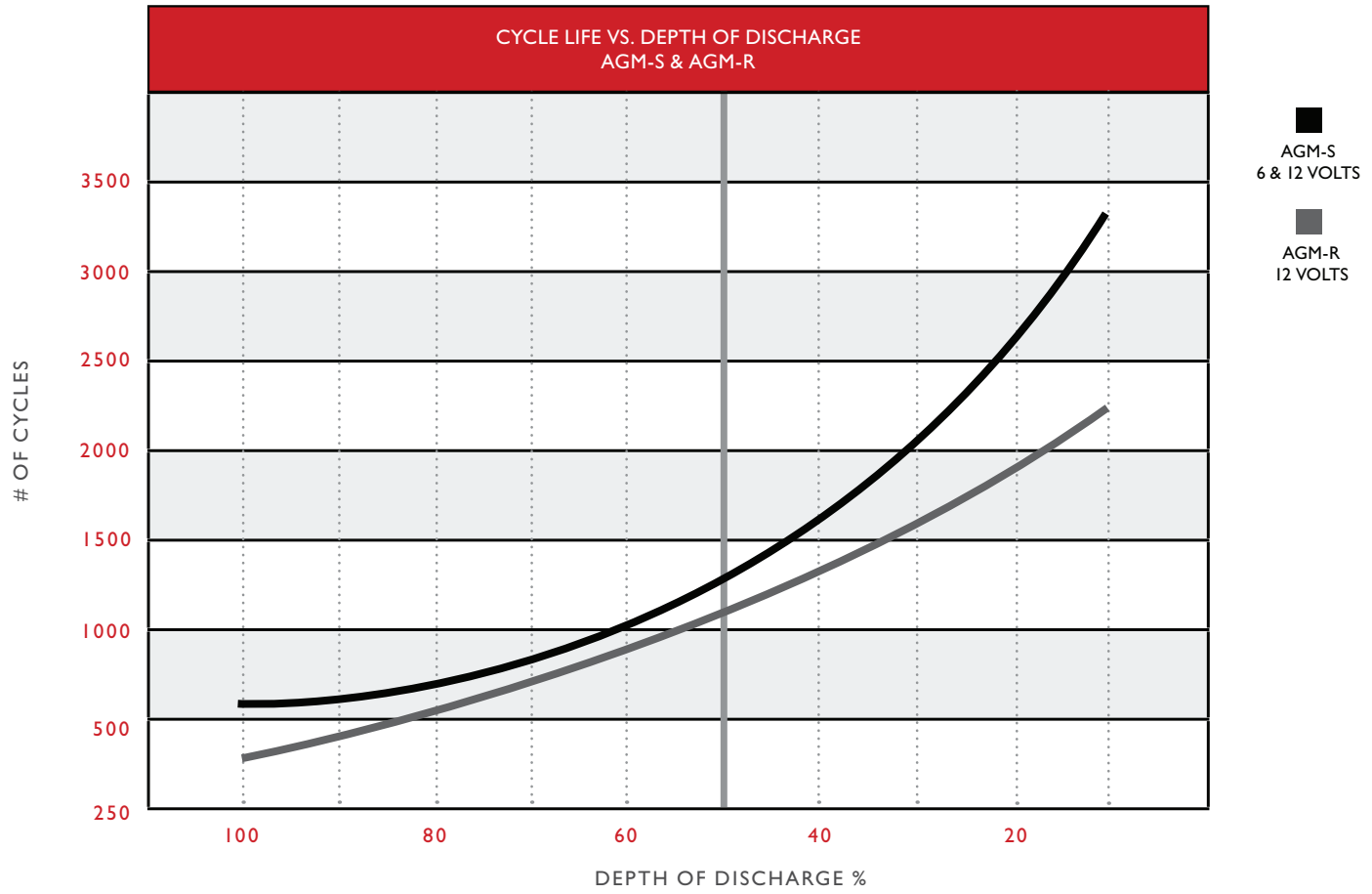
## AGM-S & AGM-R

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   MM	WIDTH IN   MM	HEIGHT (incl. terminal) IN   MM	WEIGHT LBS   KG
<b>ROLLS BATTERY AGM-S: 6 VOLT</b>							
S6-220AGM-RE	6 V	190	M8 incl TP08	12.05"   306mm	6.61"   168mm	8.94"   227mm	62lbs   28kg
S6-245AGM-RE	6 V	220	M8 incl TP08	10.24"   260mm	7.09"   180mm	10.4"   264mm	64lbs   29kg
S6-260AGM-RE	6 V	234	M8 incl TP08	12.04"   306mm	6.61"   168mm	8.94"   227mm	70.5lbs   32kg
S6-275AGM-RE	6 V	250	M8 incl TP08	10.31"   262mm	7.13"   181mm	11.06"   281mm	76lbs   34.5kg
S6-370AGM-RE	6 V	335	M8 Stud & Auto	11.61"   295mm	7.05"   179mm	14.37"   365mm	106lbs   48kg
S6-460AGM-RE	6 V	415	M10 & Auto	11.61"   295mm	7.05"   179mm	16.69"   424mm	126lbs   57kg
<b>ROLLS BATTERY AGM-S: 8 VOLT</b>							
S8-200AGM-RE	8 V	170	M8 incl. TP08	10.24"   260mm	7.17"   182mm	12.36"   314mm	76lbs   34.5kg
S8-230AGM-RE	8 V	200	M8 incl. TP08	10.24"   260mm	7.17"   182mm	12.36"   314mm	84lbs   38kg
<b>ROLLS BATTERY AGM-S: 12 VOLT</b>							
S12-95AGM-RE	12 V	85	M8 incl. TP08	10.24"   260mm	6.65"   169mm	9.33"   237mm	50.5lbs   23kg
S12-116AGM-RE	12 V	105	M8 incl. TP08	12.09"   307mm	6.65"   169mm	9.33"   237mm	66lbs   30kg
S12-128AGM-RE	12 V	115	M8 incl. TP08	12.91"   328mm	6.89"   175mm	9.33"   237mm	70.5lbs   32kg
S12-160AGM-RE	12 V	145	M8 incl. TP08	13.43"   341mm	6.77"   172mm	12.17"   309mm	97lbs   44kg
S12-230AGM-RE	12 V	210	LT	20.87"   530mm	8.23"   209mm	9.41"   239mm	135.5lbs   61.5kg
S12-240AGM-RE	12 V	215	M8 & Auto	15"   381mm	7.01"   178mm	14.61"   371mm	140.0lbs   63.5kg
S12-290AGM-RE	12 V	260	LT	20.51"   521mm	10.59"   269mm	9.65"   245mm	163lbs   74kg
<b>ROLLS BATTERY AGM-R: 12 VOLT</b>							
R12-80AGM	12 V	80	M8 incl. TP08	10.24"   260mm	6.65"   169mm	9.33"   237mm	50.5lbs   23kg
R12-100AGM	12 V	100	M8 incl. TP08	12.05"   306mm	6.65"   169mm	9.33"   237mm	59.5lbs   27kg
R12-110AGM	12 V	110	M8 incl. TP08	12.91"   328mm	6.77"   172mm	8.66"   220mm	66lbs   30kg
R12-200AGM	12 V	200	M8 incl. TP08	20.55"   522mm	9.45"   240mm	8.82"   224mm	132.5lbs   60kg
R12-260AGM	12 V	260	M8 incl. TP08	20.55"   522mm	10.55"   268mm	8.82"   224mm	161lbs   73kg

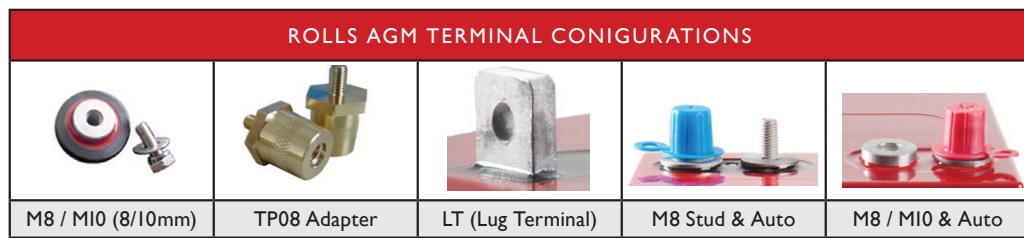
Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process and battery components. Specifications and terminals noted are standard. Distributors and Dealers in some regions may offer alternative models and/or terminal options.



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



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
<b>ROLLS BATTERY 50 AH PER POSITIVE-TYPE CS RESISTOX PLATE: 2 VOLT</b>							
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
<b>ROLLS BATTERY 60 AH PER POSITIVE-TYPE ES RESISTOX PLATE: 2 VOLT</b>							
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
<b>ROLLS BATTERY 70 AH PER POSITIVE-TYPE GS RESISTOX PLATE: 2 VOLT</b>							
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

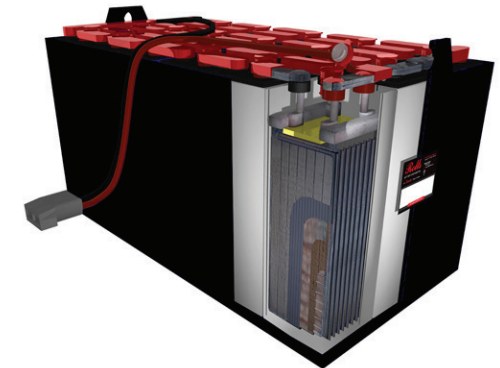
Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.



## KS PLATE

MODEL	VOLTAGE	8 HR RATE	FINISH RATE	LENGTH IN   CM	WIDTH IN   CM	HEIGHT IN   CM	WEIGHT LBS   KG
<b>ROLLS BATTERY 85 AH PER POSITIVE-TYPE KS RESISTOX PLATE: 2 VOLT</b>							
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

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



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



## 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
<b>ROLLS BATTERY 90 AH PER POSITIVE-TYPE OS RESISTOX PLATE: 2 VOLT</b>							
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	1471lbs   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

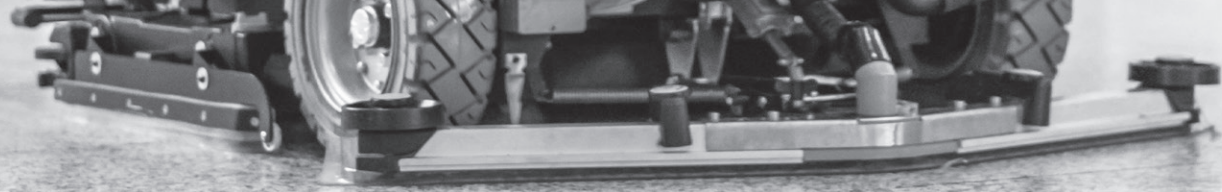
MODEL	VOLTAGE	8 HR RATE	FINISH RATE	LENGTH IN   CM	WIDTH IN   CM	HEIGHT IN   CM	WEIGHT LBS   KG
<b>ROLLS BATTERY 125 AH PER POSITIVE-TYPE YS RESISTOX PLATE: 2 VOLT</b>							
YS 5	2 V	290	13	6.09"   15.47cm	2.06"   5.24cm	28"   71.12cm	29lbs   13.15kg
YS 7	2 V	435	19	6.09"   15.47cm	2.75"   6.88cm	28"   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
<b>FLOODED FS RANGE &amp; 2-VOLT INDUSTRIAL CELLS</b>		
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
<b>LFP</b>		
R-SERIES	MOTIVE POWER	36 MONTHS   3 YEARS
S-SERIES	MOTIVE POWER	60 MONTHS   5 YEARS
<b>AGM</b>		
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](http://www.rollsbattery.com)







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