



Rolls

BATTERY ENGINEERING

RENEWABLE ENERGY



RENEWABLE ENERGY SERIES

Rolls premium deep cycle batteries have been
chosen as the best off-grid battery for over 25 years.

Rolls



4 KS 25P



S2 LI6



12 CS IIP



S6-460AGM-RE

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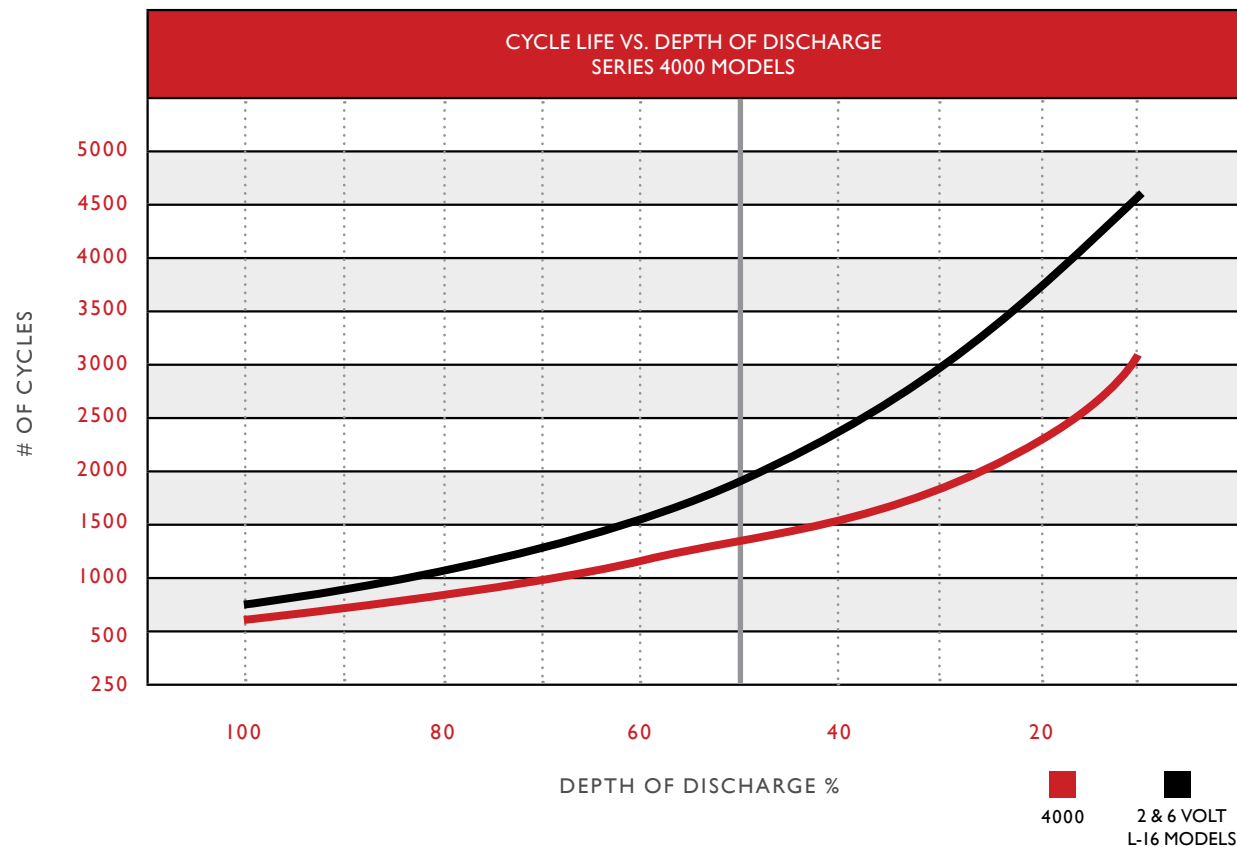
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SERIES 4000

Rolls Battery Series 4000 models offers a full range of voltage and capacity options. Our most popular models are based on the well-recognized L-16, group 24, 27 & 31 sizes with improved capacity, higher liquid reserves (up to 2.75") and longer cycle life.

MODEL	20 HR RATE	BCI	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY SERIES 4000: 2 VOLT							
S2 LI6	1169	L-16	LT	12.5" 31.8cm	7.13" 18.1cm	17" 43.2cm	120lbs 54.5kg
S2 LI6-HC	1335	L-16	LT	12.5" 31.8cm	7.13" 18.1cm	17" 43.2cm	127lbs 57.5kg
S2 LI6-SC	1503	L-16	LT	12.5" 31.8cm	7.13" 18.1cm	17" 43.2cm	130lbs 59kg
ROLLS BATTERY SERIES 4000: 6 VOLT							
S6 GC2-HC	235	GC2	DT	10.19" 25.9cm	7.13" 18.1cm	11" 27.9cm	69.5lbs 31.5kg
S6 I45	250	GC2H	DT	10.19" 25.9cm	7.13" 18.1cm	11.4" 29cm	70.5lbs 32kg
S6 LI6	390	L-16	LT	12.5" 31.8cm	7.13" 18.1cm	16.75" 42.5cm	113lbs 51kg
S6 LI6-HC	445	L-16	LT	12.5" 31.8cm	7.13" 18.1cm	16.75" 42.5cm	123lbs 55.5kg
S6 LI6-SC	487	L-16	LT	12.5" 31.8cm	7.13" 18.1cm	16.75" 42.5cm	125lbs 56.5kg
ROLLS BATTERY SERIES 4000: 12 VOLT							
S12 24	85	24	DT	11" 27.9cm	6.75" 17.1cm	9.38" 23.8cm	47.5lbs 21.5kg
S12 27	105	27	DT	12.63" 32.1cm	6.75" 17.1cm	9.38" 23.8cm	54lbs 24.5kg
S12 31	130	31	DT	13" 33cm	6.75" 17.1cm	9.50" 24.1cm	65lbs 29.5kg
S12 GC	155	GC12	UTL	13.13" 33.3cm	7.17" 18.2cm	10.80" 27.4cm	82.5lbs 37.5kg
S12 I85	210	921	DT	15.38" 39.1cm	7" 17.8cm	14.38" 36.5cm	134.5lbs 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.

IEC Testing

International Electrotechnical Commission's (IEC) standard 61427-1:2013 outlines performance criteria used to measure all deep cycle secondary cells and batteries used in PV (Photovoltaic) off-grid energy storage applications. Independent IEC testing has demonstrated and confirmed that Rolls Battery Series 4000 6-volt and 2-volt L-16 models, Series 4500 6-volt and 2-volt L-16 models, and Series 5000 2-volt, 4-volt, 6-volt, 8-volt and 12-volt premium flooded deep cycle models meet and exceed the requirements of operation in conditions of Partial State of Charge (PSOC) as well as continuous heavy discharge & recharge. Visit <http://rollsbattery.com/rolls-battery-iec-testing> for information on the independent IEC 61427-1:2013 testing performed by Dalhousie University Renewable Energy Storage Laboratory (RESL).



S6 L16 S6 L16-HC S6 GC2 S2 L16-SC

4000 FEATURES

- Heavy plate construction
- Industry leading liquid reserves
- 3 year warranty
- 12 year average life*
- Unsurpassed cycling

SERIES 4500

Offered in 2 volt and 6 volt configurations, Rolls Series 4500 models provides the convenience of the popular L-16 case design with added durability and cycle life found in our heavy grade Series 5000 plate construction. The result, a versatile L-16 model with an impressive 3700 cycles @ 50% DOD, backed by a 4 year full replacement warranty.

NEW Adding to Rolls Series 4500 exceptional performance and added cycle life, these popular 2-volt & 6-volt L-16 models now feature enhanced negative plate construction with Rolls Battery proprietary Advanced NAM carbon blend.



**ADVANCED
NAM**

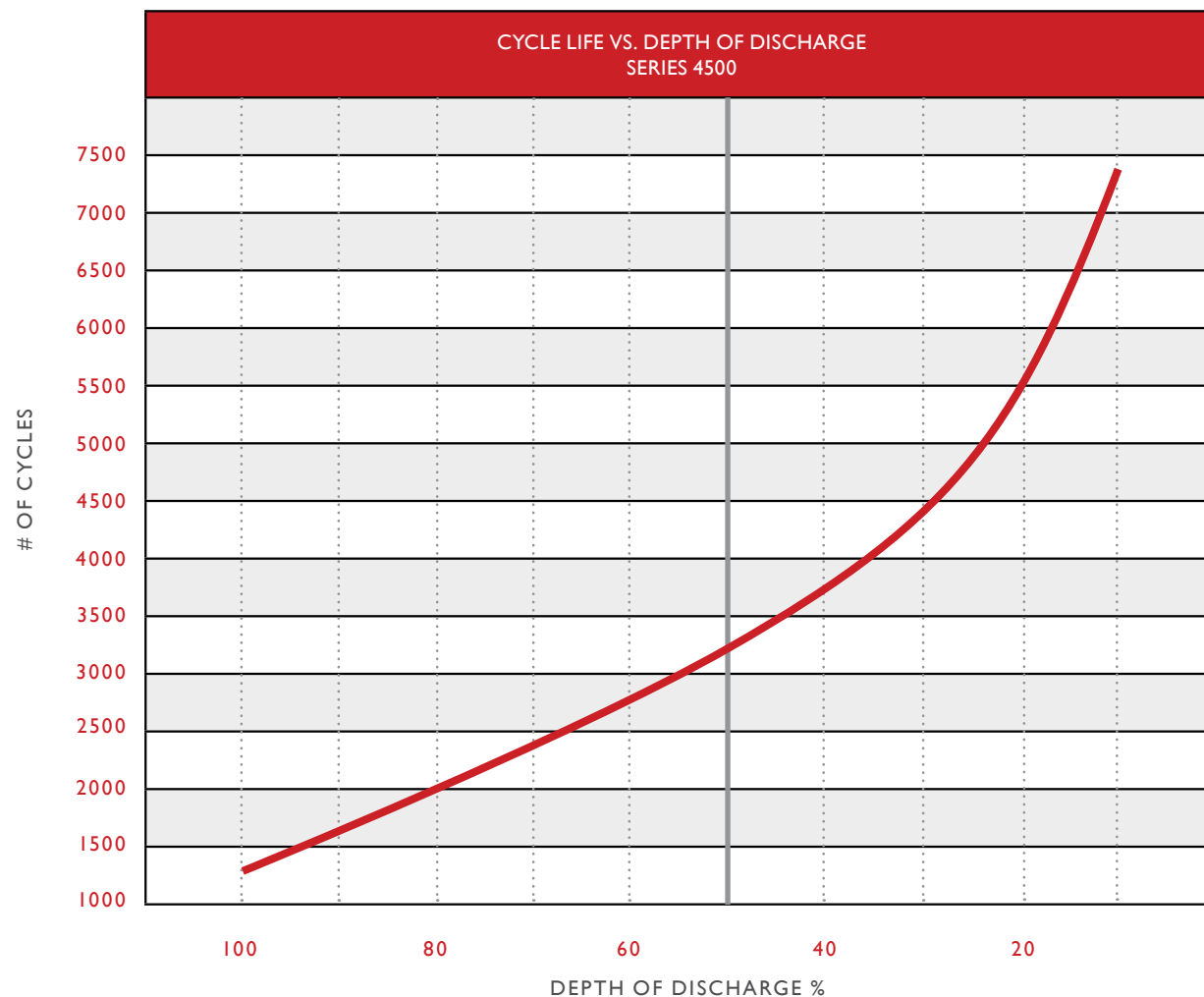
- Quicker & More Efficient Charging
- Improved Cycle Life
- Higher Capacity
- Enhanced PSOC Performance

MODEL	20 HR RATE	BCI	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY SERIES 4500: 2 VOLT							
S2 LI6-EX	1040	L-16	LT	12.50" 31.8cm	7.13" 18.1cm	17.00" 43.2cm	128lbs 58kg
ROLLS BATTERY SERIES 4500: 6 VOLT							
S6 LI6-EX	371	L-16	LT	12.50" 31.8cm	7.13" 18.1cm	16.75" 42.5cm	130lbs 59kg

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

ROLLS ACCESSORIES		
		
Rolls R-Cap	Hydrometer	Interconnect Cables

Contact your Rolls Battery Distributor or Dealer for more information.



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S6 L16-EX

S2 L16-EX

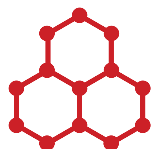
4500 FEATURES

- Heavy plate construction
- Industry's leading liquid reserve
- Included Rolls R-Cap
- 4 year warranty
- 15 year average life*
- Extended cycling

SERIES 5000

Our unique battery design features dual container construction. Each cell is self contained in a high temperature-retardant, durable polypropylene case. The outer container is made of high-density unbreakable polyethylene, providing double protection from breakage and acid leakage. Cell replacement is clear and concise with bolt-on connectors, allowing the battery to be assembled or repaired on location.

NEW All Rolls Series 5000 Renewable Energy models now feature enhanced negative plate construction with Rolls Battery proprietary Advanced NAM carbon blend.

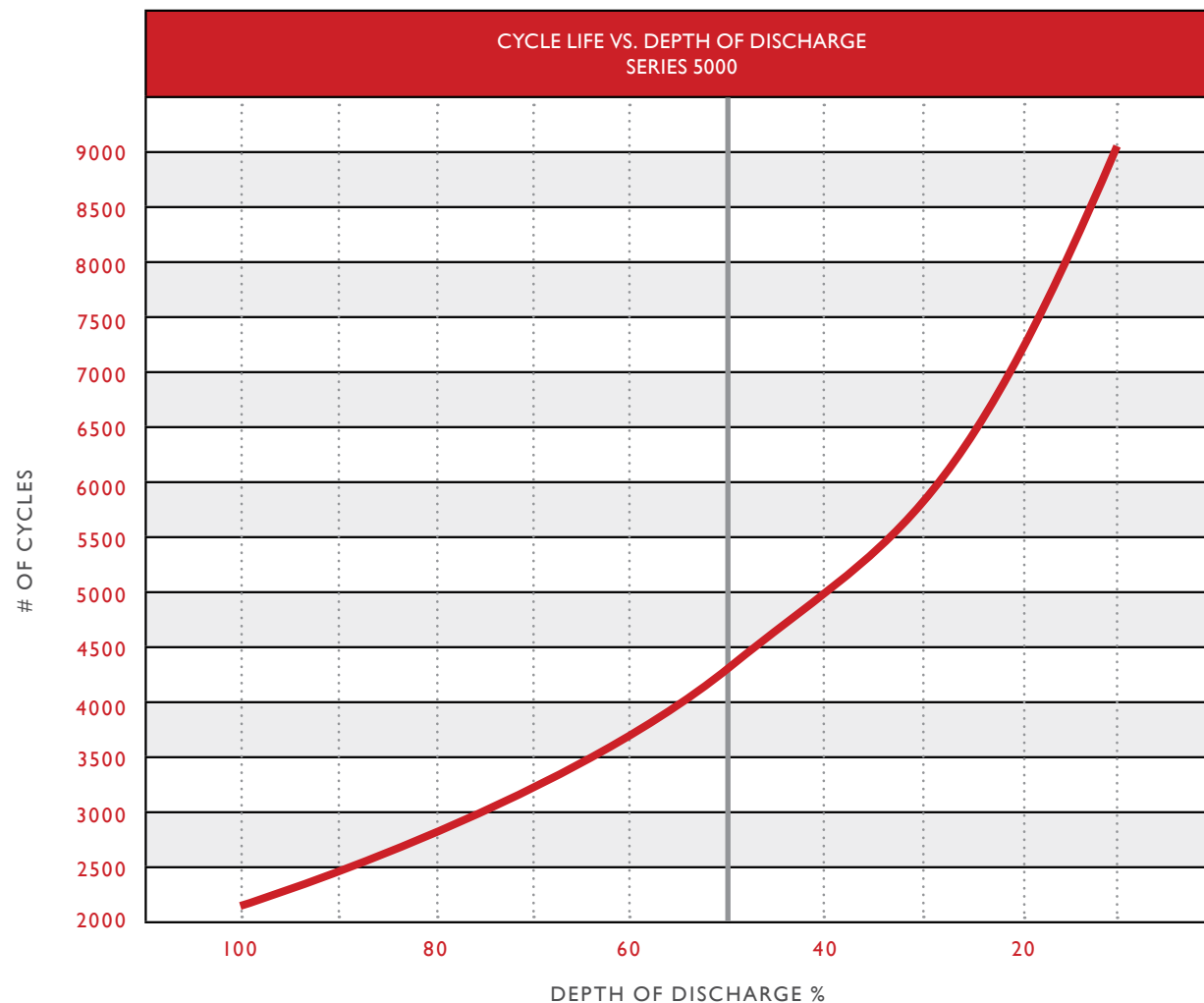


**ADVANCED
NAM**

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

MODEL	20 HR RATE	BCI	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY SERIES 5000: 2 VOLT							
2 KS 33P	1837	SPEC.	FLAG	15.44" 39.2cm	8.31" 21.1cm	24.81" 63cm	207lbs 94kg
2 OS 33P	1955	SPEC.	FLAG	15.44" 39.2cm	8.31" 21.1cm	24.81" 63cm	221.5lbs 100.5kg
2 YS 27P	2190	SPEC.	FLAG	14" 35.6cm	9" 22.9cm	31.63" 80.3cm	246lbs 111.5kg
2 YS 31P	2527	SPEC.	FLAG	15.50" 39.4cm	9" 22.9cm	31.63" 80.3cm	284.5lbs 129kg
2 YS 62P	5054	SPEC.	FLAG	27.38" 69.5cm	9" 22.9cm	31.63" 80.3cm	570lbs 258.5kg
ROLLS BATTERY SERIES 5000: 4 VOLT							
4 CS 17P	568	SPEC.	FLAG	14.38" 36.5cm	8.25" 21cm	18.25" 46.4cm	128lbs 58kg
4 KS 21P	1148	SPEC.	FLAG	15.75" 40cm	9.38" 23.8cm	24.75" 62.9cm	267lbs 121kg
4 KS 25P	1404	SPEC.	FLAG	15.75" 40cm	10.63" 27cm	24.75" 62.9cm	314lbs 142.5kg
4 KS 27P	1518	SPEC.	FLAG	15.75" 40cm	10.63" 27cm	24.75" 62.9cm	338.5lbs 153.5kg
ROLLS BATTERY SERIES 5000: 6 VOLT							
6 CS 17P	568	SPEC.	FLAG	22" 55.9cm	8.25" 21cm	18.25" 46.4cm	220.5lbs 100kg
6 CS 21P	710	SPEC.	FLAG	22" 55.9cm	9.75" 24.8cm	18.25" 46.4cm	270lbs 122.5kg
6 CS 25P	853	SPEC.	FLAG	22" 55.9cm	11.25" 28.6cm	18.25" 46.4cm	317.5lbs 144kg
6 CS 27P	929	SPEC.	FLAG	22" 55.9cm	11.25" 28.6cm	18.25" 46.4cm	341.5lbs 155kg
ROLLS BATTERY SERIES 5000: 8 VOLT							
8 CS 17P	568	SPEC.	FLAG	28.25" 71.8cm	8.25" 21cm	18.25" 46.4cm	293lbs 133kg
8 CS 25P	853	SPEC.	FLAG	28.25" 71.8cm	11.25" 28.6cm	18.25" 46.4cm	423.5lbs 192kg
8 CS 27P	853	SPEC.	FLAG	28.25" 71.8cm	8.25" 21.0cm	18.25" 46.4cm	456lbs 207kg
ROLLS BATTERY SERIES 5000: 12 VOLT							
12 CS 11P	371	SPEC.	FLAG	22" 55.9cm	11.25" 28.6cm	18.25" 46.4cm	271lbs 123kg

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



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IEC Testing

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2 KS 33P 2 YS 31P

**ENHANCED
PERFORMANCE
& CYCLE LIFE**



5000 FEATURES

- Advanced NAM additive for quicker & more efficient charging, increased capacity & improved cycle life
- Widest range of specifications available
- Modular dual container construction
- Computer controlled formation
- Robotically welded
- Included Rolls R-Cap
- 5 year warranty
- 15 year average life*
- Load and capacity tested prior to shipping

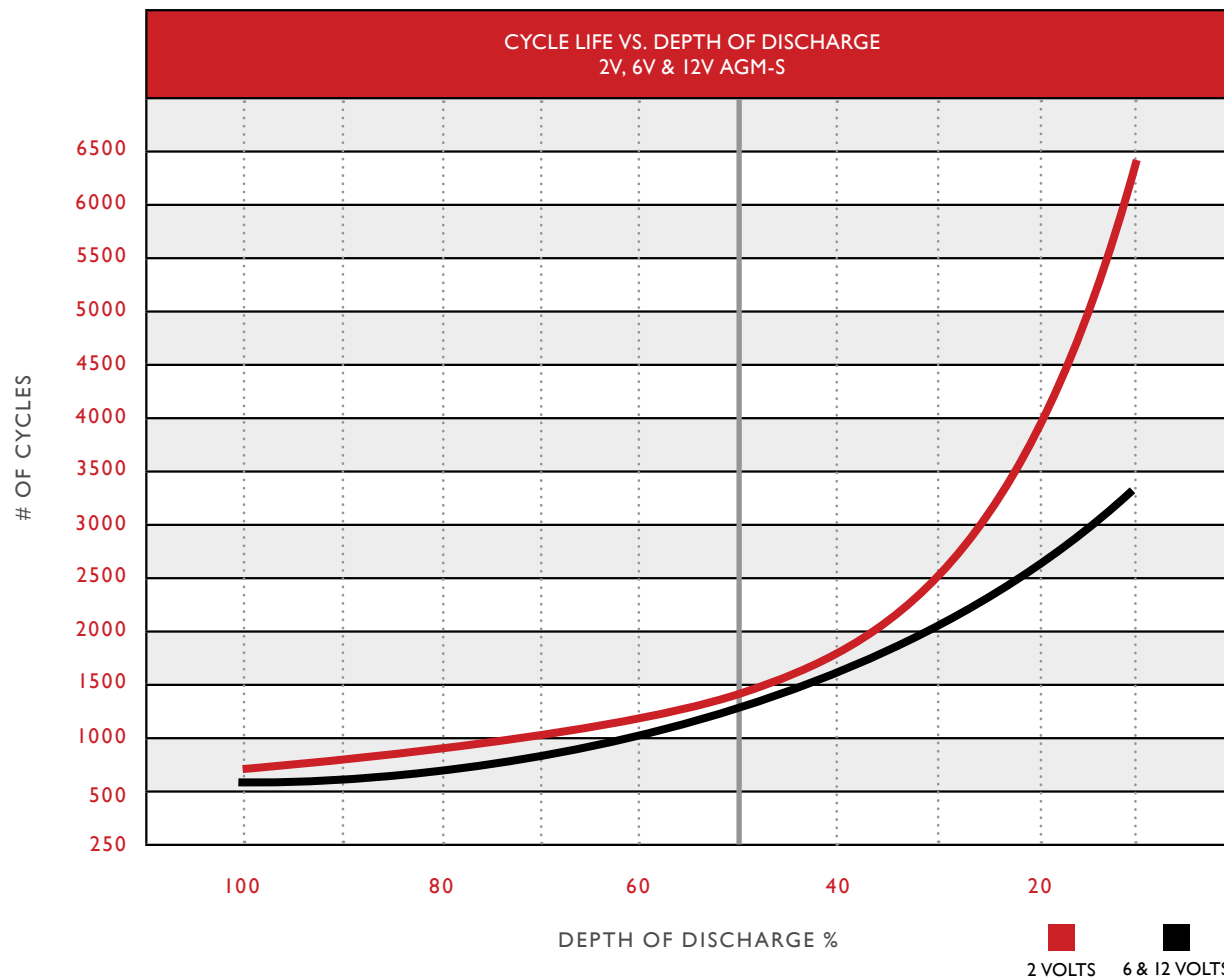


AGM - S

Rolls high quality AGM-S VRLA batteries offer true deep cycle performance, increased capacity and extended cycle life in a rugged, sealed, shock and vibration-resistant ABS case design for added durability, ideal for a variety of remote and confined off-grid, grid-tied and backup applications.

MODEL	VOLTAGE	20 HR RATE	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY AGM-S: 2 VOLT							
S2-1275AGM-RE	2 V	1150	F10	11.61" 29.5cm	7.05" 17.9cm	16.69" 42.4cm	127lbs 57.5kg
ROLLS BATTERY AGM-S: 6 VOLT							
S6-275AGM-RE	6 V	250	M8-TP8	10.24" 26.0cm	7.09" 18.0cm	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" 26.0cm	7.17" 18.2cm	12.36" 31.4cm	76lbs 34.5kg
S8-230AGM-RE	8 V	200	DT	10.24" 26.0cm	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" 26.0cm	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	6.77" 17.2cm	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" 53cm	8.23" 20.9cm	9.41" 23.9cm	135.5lbs 61.5kg
S12-240AGM-RE	12 V	215	DT	15" 38.1cm	7" 17.8cm	14.61" 37.1cm	140.0lbs 63.5kg
S12-290AGM-RE	12 V	260	LT	20.51" 52.1cm	10.59" 26.9cm	9.65" 24.5cm	163lbs 74kg

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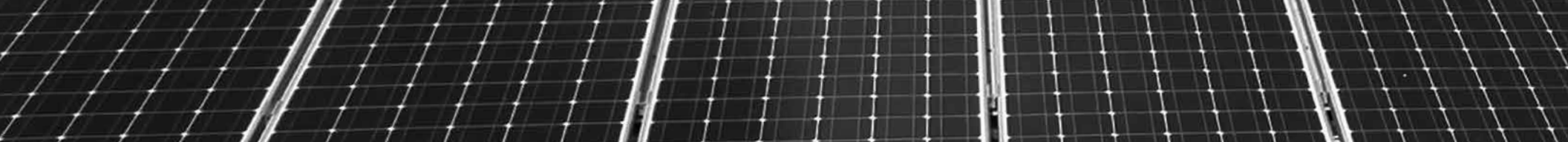
S2-1275AGM-RE

AGM-S 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
- 3 year warranty
- 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.



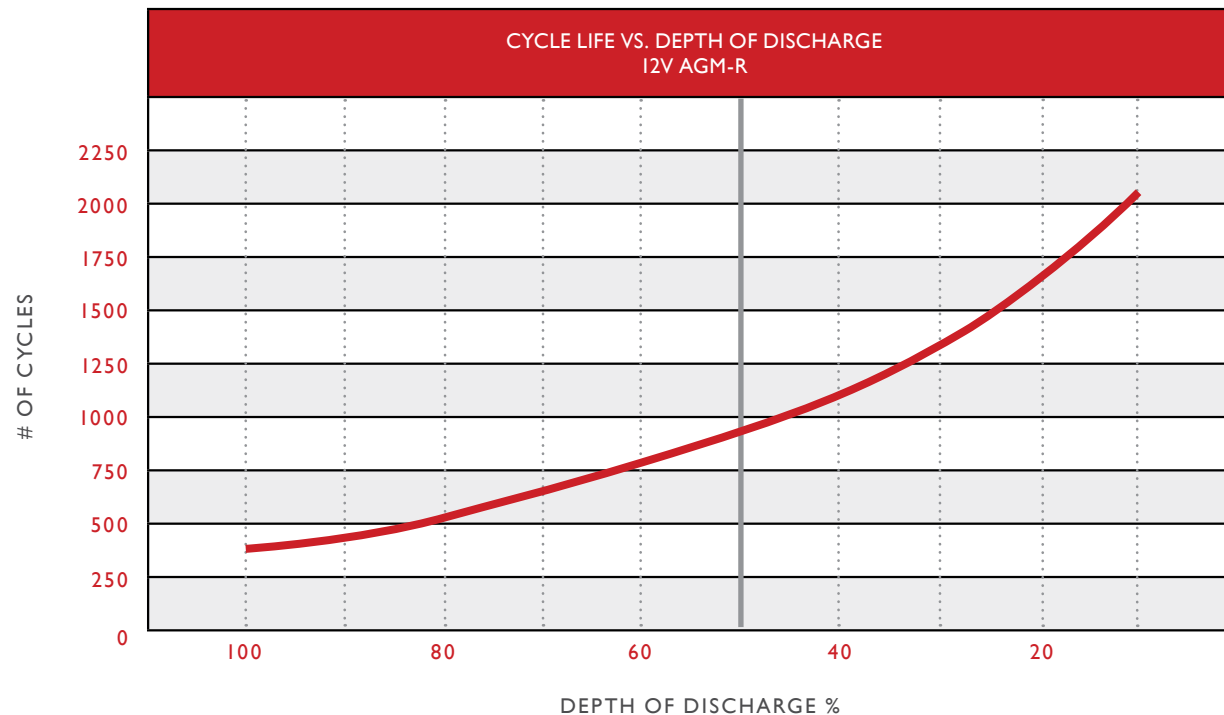
AGM - R

This range of dual purpose sealed maintenance-free 12-volt AGM-R batteries offering outstanding value and performance. The AGM-R line offers a lower self-discharge and an increased acceptance to charge current than conventional flooded wet batteries, allowing faster recharge. Incorporating all of the leading design features associated with Absorbed Glass Mat technology, the AGM-R line provides the perfect solution when looking to replace wet batteries or upgrade existing sealed batteries.

MODEL	VOLTAGE	20 HR RATE	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
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" 30.6cm	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" 22cm	66lbs 30kg
R12-200AGM	12 V	200	F8	20.55" 52.2cm	9.45" 24.0cm	8.82" 22.4cm	132.5lbs 60kg
R12-260AGM	12 V	260	F8	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.





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R12-100AGM-R

AGM - R FEATURES

- Maintenance-free sealed construction
- Low internal resistance allowing faster recharge
- Shock and vibration-resistance ABS case
- 850 cycles at 50% DOD*
- 1 year warranty
- Standard dimensions for easy retro-fit

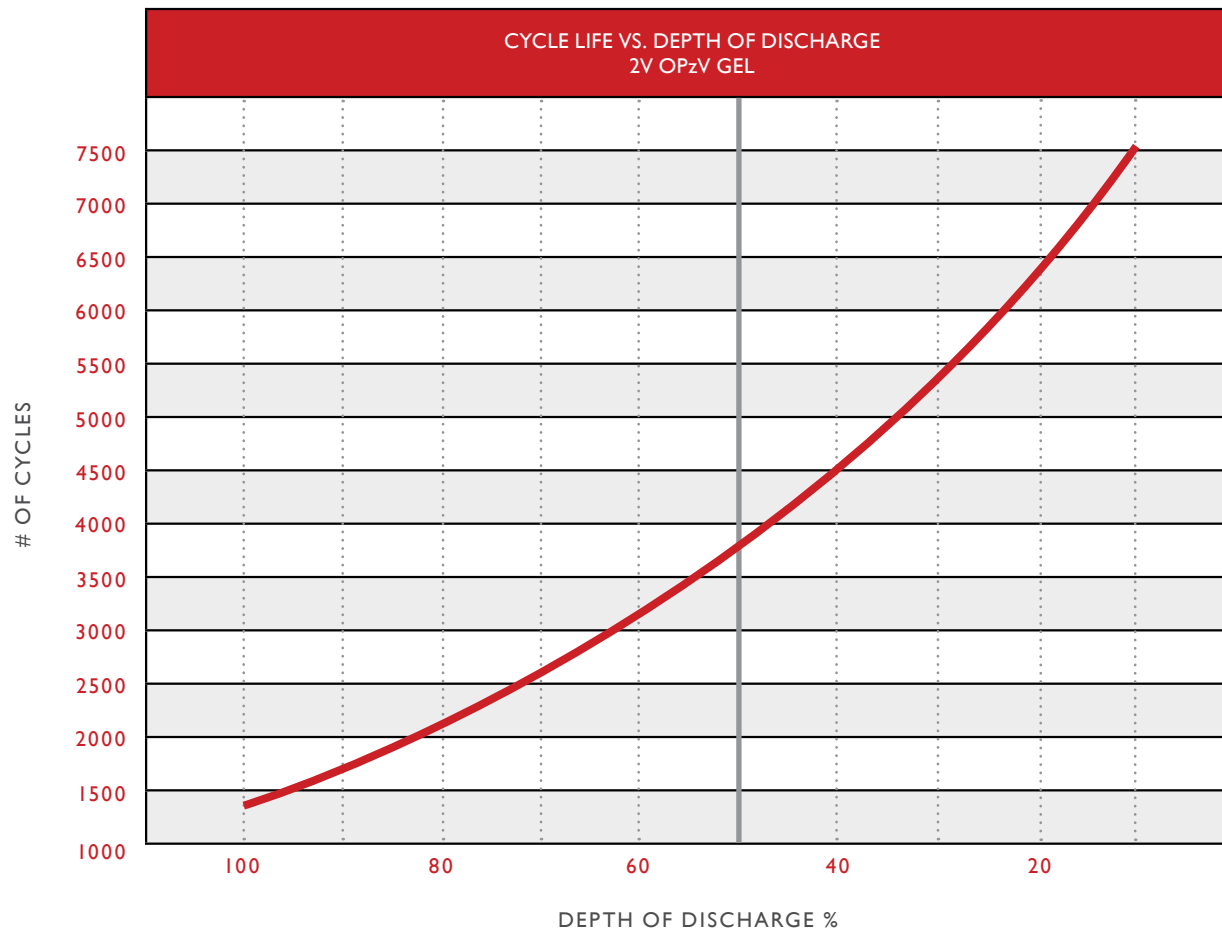
GEL MODELS

Rolls GEL OPzV range offers an immobilized GEL and Tubular plate technology, providing high reliability and performance. Each is designed and manufactured according to DIN standards, constructed with die-casting positive grid and a patent formula of active material. Rolls GEL OPzV 2-volt models offers high cyclic use even under extreme operating conditions and more than 20 years floating design life at 25°C / 77°F.

MODEL	10 HR RATE	20 HR RATE	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT (INCL. TERMINAL) IN CM	WEIGHT LBS KG
ROLLS BATTERY GEL: 2 VOLT							
S2-224GEL	224	252	2 x Threaded Female M10	4.06" 10.3cm	8.11" 20.6cm	15.04" 38.2cm	41lbs 18.5kg
S2-280GEL	280	315	2 x Threaded Female M10	4.88" 12.4cm	8.11" 20.6cm	15.04" 38.2cm	48.5lbs 22kg
S2-336GEL	336	378	2 x Threaded Female M10	5.71" 14.5cm	8.11" 20.6cm	15.04" 38.2cm	58.5lbs 26.5kg
S2-405GEL	405	459	2 x Threaded Female M10	4.88" 12.4cm	8.11" 20.6cm	19.61" 49.8cm	66lbs 30kg
S2-486GEL	486	551	2 x Threaded Female M10	5.71" 14.5cm	8.11" 20.6cm	19.61" 49.8cm	77lbs 35kg
S2-567GEL	567	643	2 x Threaded Female M10	6.54" 16.6cm	8.11" 20.6cm	19.61" 49.8cm	90.5lbs 41kg
S2-690GEL	690	785	2 x Threaded Female M10	5.71" 14.5cm	8.11" 20.6cm	26.50" 67.3cm	106lbs 48kg
S2-920GEL	920	1046	4 x Threaded Female M10	7.52" 19.1cm	8.27" 21.0cm	26.50" 67.3cm	144.5lbs 65.5kg
S2-1150GEL	1150	1308	4 x Threaded Female M10	9.17" 23.3cm	8.27" 21.0cm	26.50" 67.3cm	176lbs 80kg
S2-1380GEL	1380	1571	4 x Threaded Female M10	10.83" 27.5cm	8.27" 21.0cm	26.50" 67.3cm	209.5lbs 95kg
S2-1620GEL	1620	1828	4 x Threaded Female M10	10.83" 27.5cm	8.27" 21.0cm	32.44" 82.4cm	242.5lbs 110kg
S2-2160GEL	2160	2437	6 x Threaded Female M10	15.71" 39.9cm	8.43" 21.4cm	31.46" 79.9cm	344lbs 156kg
S2-2700GEL	2700	3044	8 x Threaded Female M10	19.17" 48.7cm	8.35" 21.2cm	31.46" 79.9cm	430lbs 195kg
S2-3240GEL	3240	3660	8 x Threaded Female M10	22.68" 57.6cm	8.35" 21.2cm	31.46" 79.9cm	509lbs 231kg
S2-3458GEL	3458	3936	8 x Threaded Female M10	22.68" 57.6cm	8.35" 21.2cm	31.46" 79.9cm	532.5lbs 241.5kg

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

*Rolls OPzV GEL models must be installed vertically unless otherwise specified. Models compatible with horizontal installation are available upon request. Please contact your Rolls Battery distributor or dealer for more information.



S2-450GEL

GEL FEATURES

- Sealed maintenance-free construction
- Tubular plate technology for high cyclic use and float applications
- Durable ABS case
- Low self-discharge (less than 2% per month)
- Vertical or horizontal* mounting / installation
- 3 year warranty
- Wide range of capacities & standard sizes

*models compatible with horizontal installation are available by request. Contact your distributor or dealer for product information.



INDUSTRY LEADING 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 CATEGORY	SERIES	WARRANTY PERIOD
RENEWABLE ENERGY	4000	36 MONTHS 3 YEARS
	4500	48 MONTHS 4 YEARS
	5000	60 MONTHS 5 YEARS
AGM	AGM-S	RENEWABLE ENERGY
		MARINE & RV
		OTHER APPLICATIONS
	AGM-R	
GEL	RE/MARINE STANDBY	36 MONTHS 3 YEARS
	OTHER APPLICATIONS	12 MONTHS 1 YEAR

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



USED IN SYSTEMS AROUND THE WORLD

Manufactured in Springhill, Nova Scotia, Canada since 1959, Rolls deep cycle batteries are sold via distribution around the world. Manufactured for use in wide range of markets, Rolls batteries are chosen to provide dependable power in a wide range of Renewable Energy applications. From residential off-grid, grid-tied or backup power installs to large-scale applications such as diesel generator replacement in developing countries and island mini-grid systems such as those installed at the Scottish isles of Eigg, Muck, and Rum, as well as the Shetland island of Foula.

- Mini-grid systems Isle of Eigg, Muck & Rum, Scotland
- Shetland Isle of Foula, Scotland
- Sioma High School – Western Zambia
- Aloe D'Agafay Ecology Retreat, Marrakesh, Morocco



6 CS 27P



S2-1275AGM-RE



S2-1070GEL



2 YS 62P

NOTES

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Relis



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BATTERY ENGINEERING

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