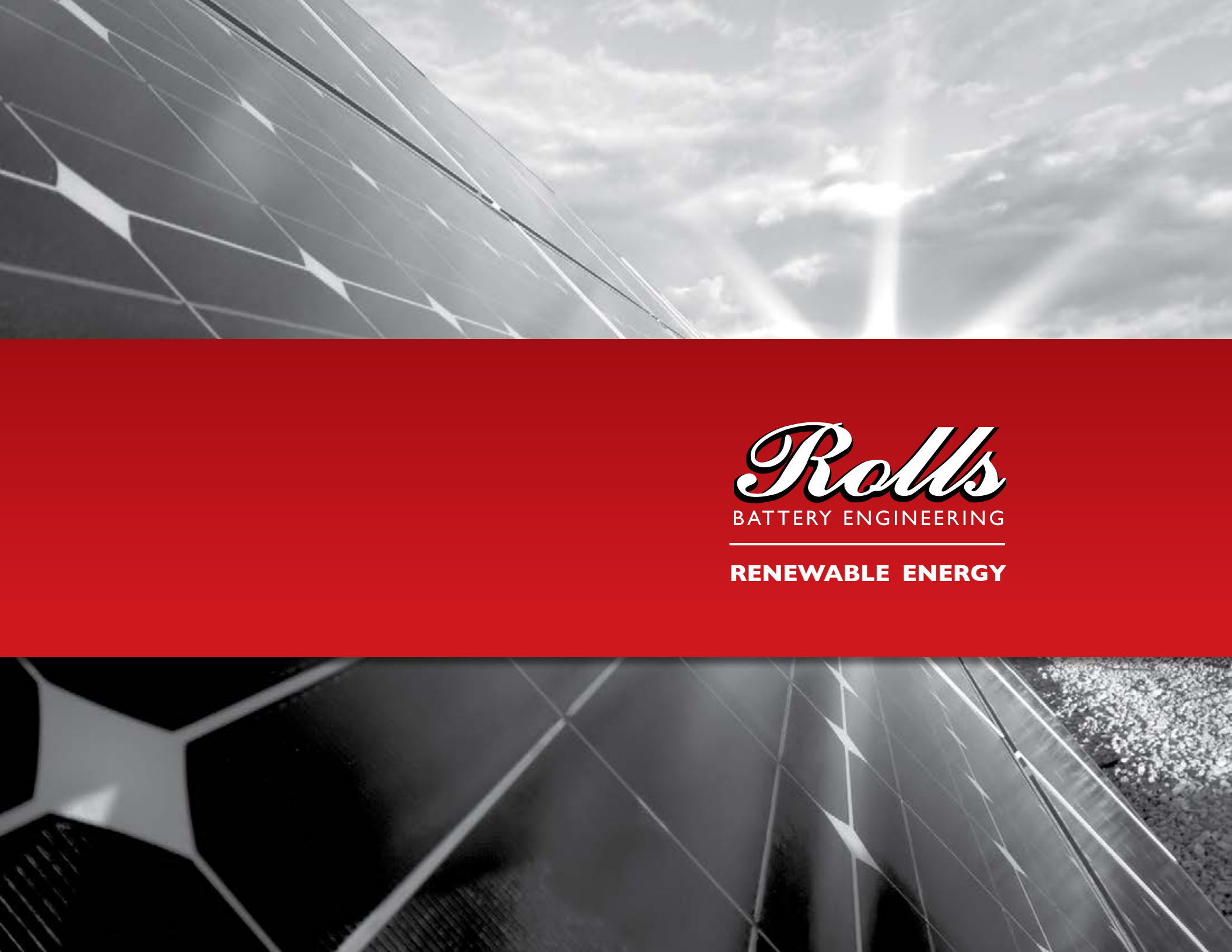




Rolls

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



S-1450



6 HHG 31P



S6-460AGM

CONTENTS

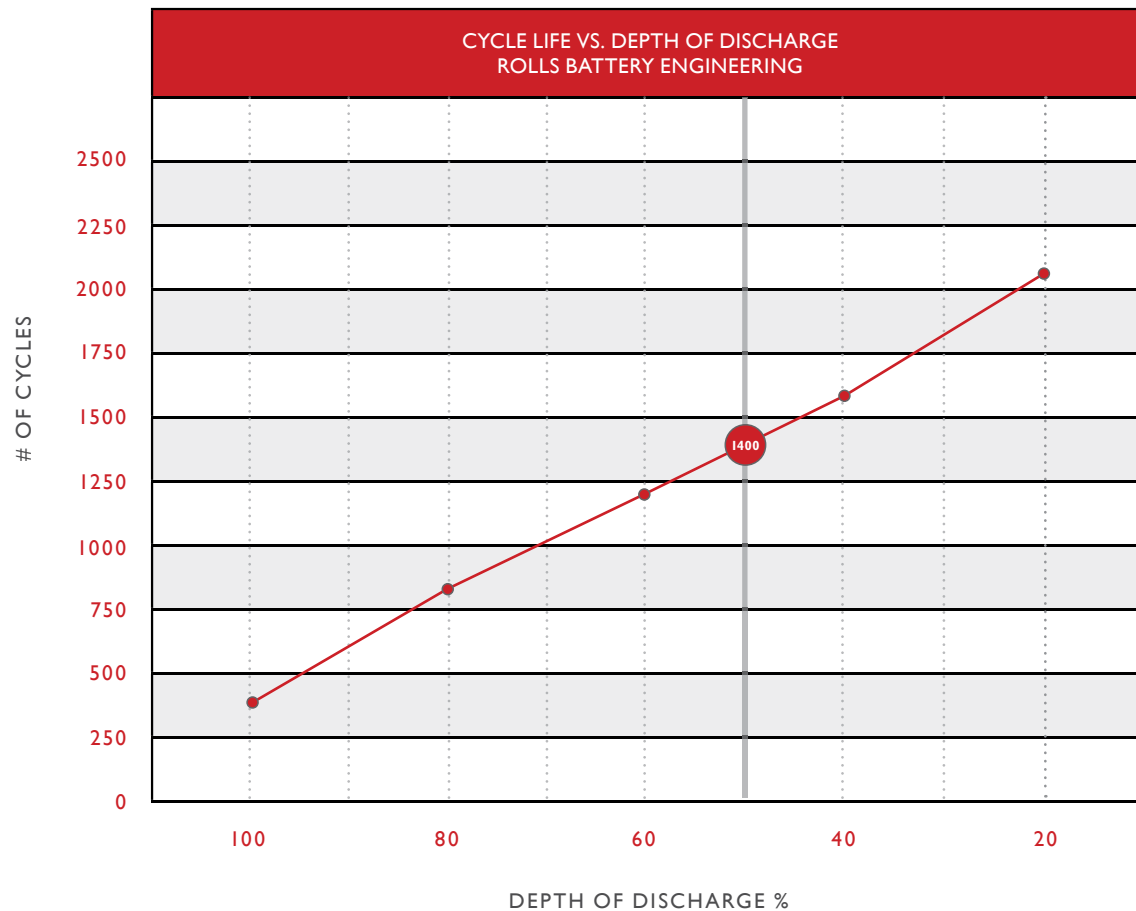
02	Rolls Battery 4000 Series
04	Rolls Battery 4500 Series
06	Rolls Battery 5000 Series
08	Rolls Battery AGM-S

10	Rolls Battery AGM-R
12	Rolls Battery Gel
14	Industry Leading Warranty

4000 SERIES

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

MODEL	20 HR RATE	BCI	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY 4000 SERIES: 2 VOLT							
S-1440	1124	L-16	2V L-16	12.5" 31.75cm	7.125" 18.10cm	17" 43.18cm	120lbs 54.43kg
S-1660	1284	L-16	2V L-16	12.5" 31.75cm	7.125" 18.10cm	17" 43.18cm	127lbs 57.61kg
S-1860	1445	L-16	2V L-16	12.5" 31.75cm	7.125" 18.10cm	17" 43.18cm	131lbs 59.42kg
ROLLS BATTERY 4000 SERIES: 6 VOLT							
S-290	230	GC2	UNIV Molded	10.188" 25.88cm	7.125" 18.10cm	11" 27.94cm	68lbs 30.84kg
S-330	250	GC2H	UNIV Molded	10.188" 25.88cm	7.125" 18.10cm	11.4" 28.96cm	79lbs 35.83kg
S-480	375	L-16	FLAG M	12.5" 31.75cm	7.125" 18.10cm	16.75" 42.55cm	113lbs 51.26kg
S-550	428	L-16	FLAG M	12.5" 31.75cm	7.125" 18.10cm	16.75" 42.55cm	123lbs 55.79kg
S-605	468	L-16	FLAG M	12.5" 31.75cm	7.125" 18.10cm	16.75" 42.55cm	125lbs 56.7kg
6 HHG 3IP	344	SPEC.	FLAG RR.	20.75" 52.71cm	8" 20.32cm	11.875" 30.16cm	125lbs 56.7kg
6 EHG 3IP	410	SPEC.	FLAG RR	20.75" 52.71cm	8" 20.32cm	12.75" 32.39cm	133lbs 60.33kg
FC-420	315	L-16	FLAG M	12.5" 31.75cm	7.125" 18.10cm	16.75" 42.55cm	114lbs 51.71kg
ROLLS BATTERY 4000 SERIES: 8 VOLT							
8 HHG 3IP	344	SPEC.	FLAG RR	27" 68.58cm	8" 20.32cm	11.875" 30.16cm	167lbs 75.75kg
8 EHG 3IP	410	SPEC.	FLAG RR	27" 68.58cm	8" 20.32cm	12.75" 32.39cm	178lbs 80.74kg
ROLLS BATTERY 4000 SERIES: 12 VOLT							
S-105	85	24	UNIV Molded	11" 27.94cm	6.75" 17.10cm	9.375" 23.8cm	46lbs 20.87kg
S-140	105	27	UNIV Molded	12.625" 32.1cm	6.75" 17.10cm	9.375" 23.8cm	54lbs 24.49kg
S-160	125	30H	Universal or Flag (specified)	13.5" 34.3cm	6.75" 17.10cm	9.5" 24.1cm	73lbs 34kg
S-180	136	Compact 125	Automotive or Universal (if specified)	13.188" 33.5cm	6.75" 17.10cm	11.675" 29.5cm	90lbs 41kg
S-260	200	SPEC.	UNIV	15.375" 39.05cm	7" 17.78cm	14.375" 36.51cm	125lbs 56.70kg



*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.



S-480 S-550 S-1860 S-290

4000 FEATURES

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

4500 SERIES

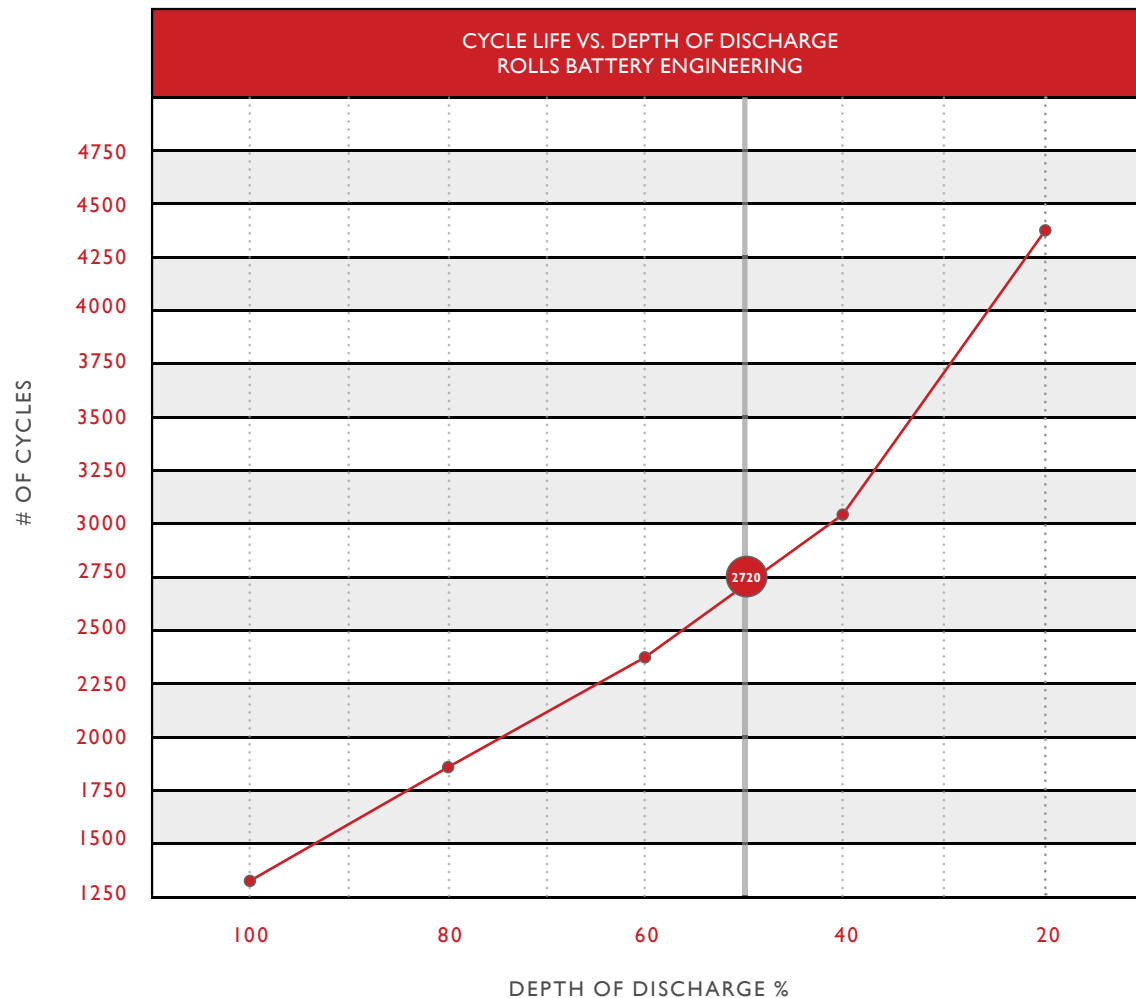
Offered in 2 volt and 6 volt configurations, Rolls 4500 Series models provides the convenience of the popular LI6 case design with added durability and cycle life found in our heavy grade 5000 Series plate construction. The result, an versatile LI6 model with an impressive 2720 cycles @ 50% DOD, backed by an additional 1 year full replacement period.

*(3 yrs full replacement,
4 years pro-rated warranty)*

MODEL	20 HR RATE	BCI	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY 4500 SERIES: 2 VOLT							
S-1400EX	1000	L-16	2V L-16	12.5" 31.75cm	7.125" 18.10cm	16.75" 42.55cm	126lbs 57.15kg
ROLLS BATTERY 4500 SERIES: 6 VOLT							
S-500EX	357	L-16	FLAG M	12.5" 31.75cm	7.125" 18.10cm	16.75" 42.55cm	130lbs 58.97kg

ROLLS ACCESSORIES		
		
Rolls R-Cap	Hydrometer	Interconnect Cables

Contact your Rolls Battery Distributor or Dealer for more information.



*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.



S-500EX

S-1400EX

4500 FEATURES

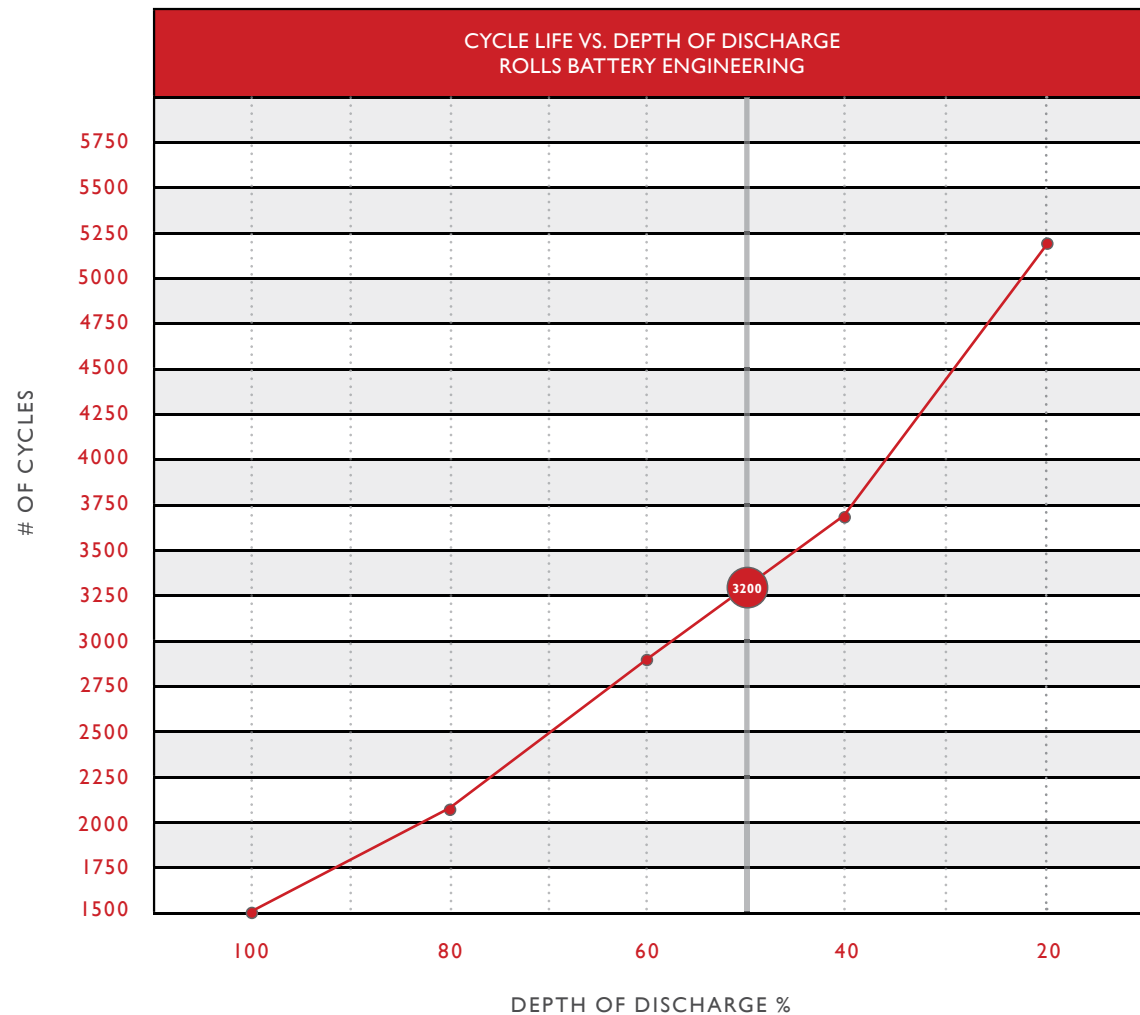
- Heavy plate construction
- Industry's leading liquid reserve
- Included Rolls R-Cap
- 7 year warranty
- 15 year average life*
- Extended cycling



5000 SERIES

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.

MODEL	20 HR RATE	BCI	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
ROLLS BATTERY 5000 SERIES: 2 VOLT							
2 KS 33P	1766	SPEC.	FLAG RR	15.44" 9.21cm	8.312" 21.11cm	24.81" 63.02cm	208lbs 94.35kg
2 OS 33P	1880	SPEC.	FLAG RR	15.44" 39.21cm	8.312" 21.11cm	24.81" 63.02cm	222lbs 100.71kg
2 YS 27P	2106	SPEC.	FLAG RR	15.5" 39.37cm	9" 22.86cm	31.63" 80.33cm	246lbs 111.58kg
2 YS 31P	2430	SPEC.	FLAG RR	15.5" 39.37cm	9" 22.86cm	31.63" 80.33cm	285lbs 129.27kg
2 YS 62P	4860	SPEC.	FLAG RR	27.375" 69.538cm	9" 22.86cm	31.63" 80.33cm	570lbs 258.55kg
ROLLS BATTERY 5000 SERIES: 4 VOLT							
4 CS 17P	546	SPEC.	FLAG RR	14.375" 36.5cm	8.25" 20.96cm	18.25" 46.36cm	128lbs 58.06kg
4 KS 21P	1104	SPEC.	FLAG RR	15.75" 40.01cm	9.375" 23.81cm	24.75" 62.87cm	267lbs 121.11kg
4 KS 25P	1350	SPEC.	FLAG RR	15.75" 40.01cm	10.625" 26.99cm	24.75" 62.87cm	315lbs 142.88kg
4 KS 27P	1460	SPEC.	FLAG RR	15.75" 40.01cm	10.625" 26.99cm	24.75" 62.87cm	339lbs 153.77kg
ROLLS BATTERY 5000 SERIES: 6 VOLT							
6 CS 17P	546	SPEC.	FLAG RR	22" 55.88cm	8.25" 20.96cm	18.25" 46.36cm	221lbs 100.24kg
6 CS 21P	683	SPEC.	FLAG RR	22" 55.88cm	9.75" 24.77cm	18.25" 46.36cm	271lbs 122.92kg
6 CS 25P	820	SPEC.	FLAG RR	22" 55.88cm	11.25" 28.58cm	18.25" 46.36cm	318lbs 144.24kg
6 CS 27P	893	SPEC.	FLAG RR	22" 55.88cm	11.25" 28.58cm	18.25" 46.36cm	342lbs 155.13kg
ROLLS BATTERY 5000 SERIES: 8 VOLT							
8 CS 17P	546	SPEC.	FLAG RR	28.25" 71.76cm	8.25" 20.96cm	18.25" 46.36cm	294lbs 133.36kg
8 CS 25P	820	SPEC.	FLAG RR	28.25" 71.76cm	11.25" 28.58cm	18.25" 46.36cm	424lbs 192.32kg
ROLLS BATTERY 5000 SERIES: 12 VOLT							
12 CS 11P	357	SPEC.	FLAG L	22" 55.88cm	11.25" 28.58m	18.25" 46.36cm	272lbs 123.38kg



*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.



2 KS 33P 2 YS 31P

5 0 0 0 F E A T U R E S

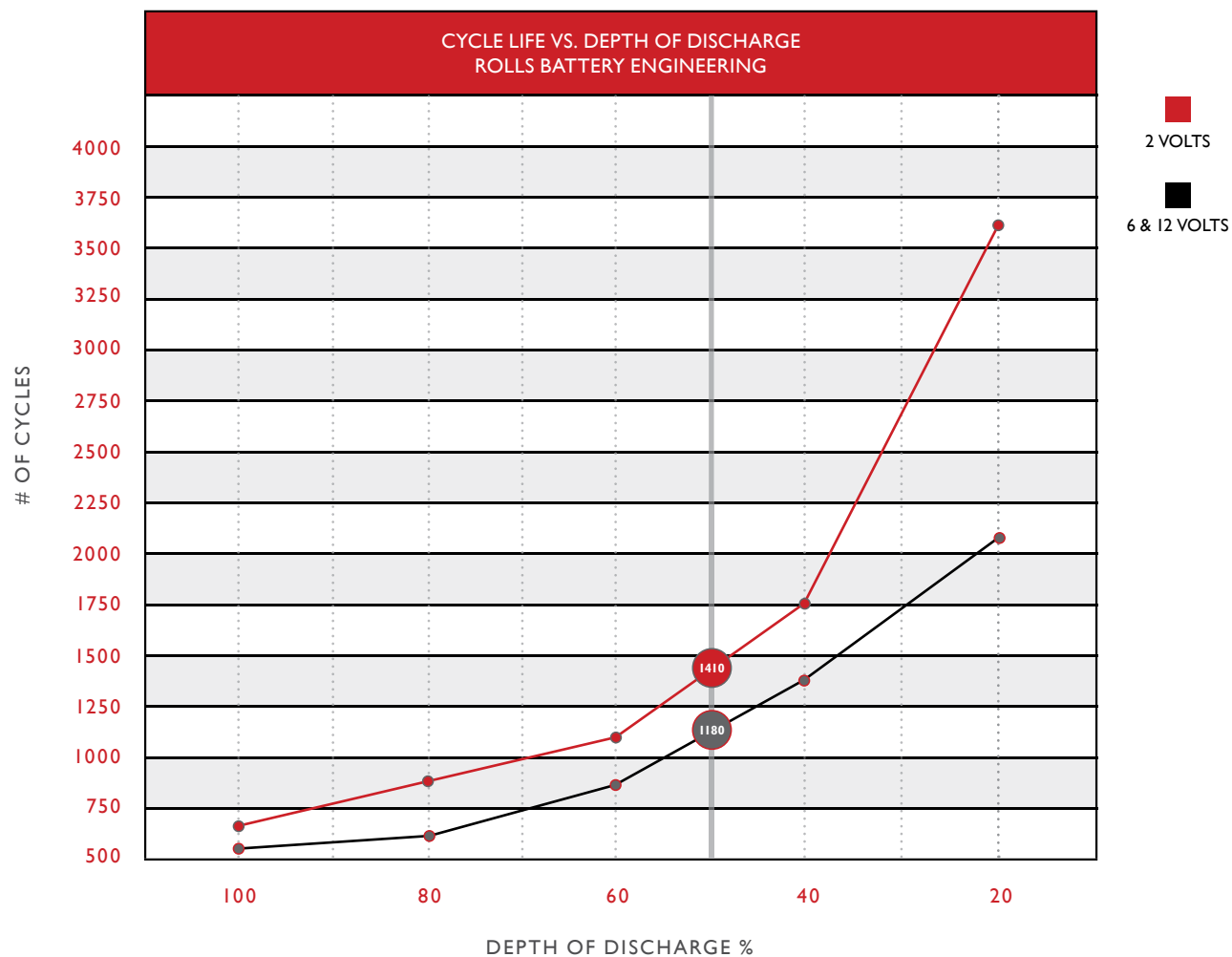
- Widest range of specifications available
- Computer controlled formation
- Modular dual container construction
- Robotically welded
- 10 year warranty
- 15 year average life*
- Load and capacity tested prior to shipping (wet charge only)



AGM - S SERIES

Rolls high quality AGM-S Series 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							
S2-590AGM	2 V	550	M8	9.5" 24.1cm	6.75" 17.2cm	14.375" 36.5cm	82lbs 37.2kg
S2-945AGM	2 V	880	M8	16.6" 41.1cm	6.875" 17.5cm	14.375" 36.5cm	136lbs 61.5kg
S2-1180AGM	2 V	1100	M8	18.6" 47.4cm	6.875" 17.5cm	14.375" 36.6cm	162lbs 73.5kg
S2-1275AGM	2 V	1150	M10	11.6" 29.5cm	7" 17.9cm	16.66" 42.4cm	127lbs 57.83kg
S2-1895AGM	2 V	1750	M8	15.8" 40.11cm	13.66" 34.7cm	14.875" 37.8cm	243lbs 110kg
S2-2375AGM	2 V	2200	M8	19.25" 49cm	13.75" 34.9cm	15" 38.2cm	322lbs 146kg
S2-3560AGM	2 V	3300	M8	28" 71.1cm	14" 35.3cm	15" 38.2cm	485lbs 220kg
ROLLS BATTERY AGM-S: 6 VOLT							
S6-275AGM	6 V	250	M8-TP8	10.33" 26.2cm	7.125" 18.1cm	10.75" 27.33cm	77lbs 35.1kg
S6-370AGM	6 V	335	DT	11.6" 29.5cm	7" 17.9cm	14.375" 36.5cm	105lbs 46.70kg
S6-460AGM	6 V	415	DT	11.6" 29.5cm	7" 17.9cm	16.66" 42.4cm	123lbs 55.79kg
ROLLS BATTERY AGM-S: 12 VOLT							
S12-95AGM	12 V	85	M6-TP08	10.25" 26cm	6.6" 17.2cm	9.33" 23.7cm	55lbs 25.10kg
S12-116AGM	12 V	105	M8	12" 30.7cm	6.6" 17.2cm	9.33" 23.7cm	66lbs 30.20kg
S12-128AGM	12 V	115	M8-TP08	13" 32.8cm	6.875" 17.5cm	9.33" 23.7cm	72lbs 32.70kg
S12-160AGM	12 V	145	M8-TP08	13.33" 34.1cm	6.08" 17.3cm	12.0625" 30.9cm	98lbs 44.30kg
S12-230AGM	12 V	210	LT	20.875" 53cm	8.25" 20.90cm	9.43" 23.9cm	133lbs 60.50kg
S12-240AGM	12 V	215	DT	15" 38.10cm	7" 17.8cm	14.625" 37.1cm	132lbs 60kg
S12-290AGM	12 V	260	LT	20.5" 52.10cm	10.6" 26.9cm	9.66" 24.5cm	172lbs 78.20kg



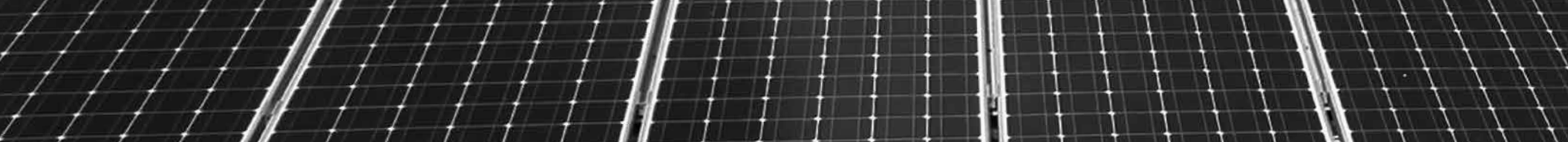
S2-1275AGM

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
- 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.

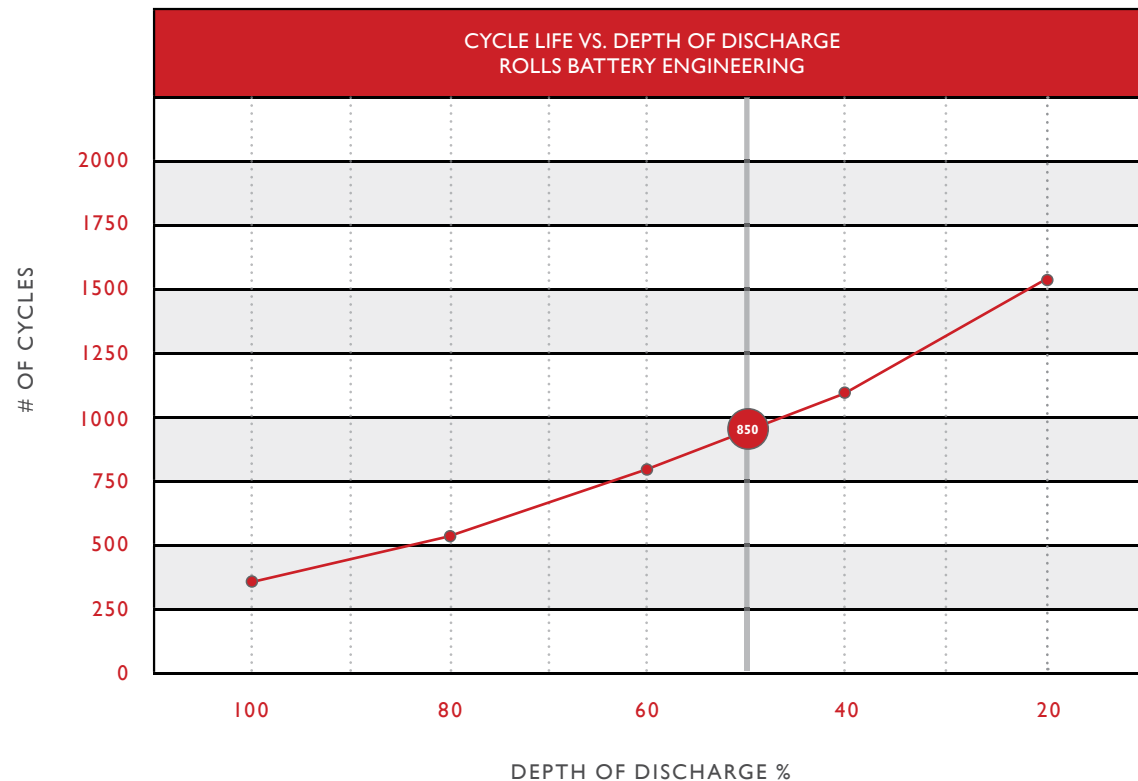
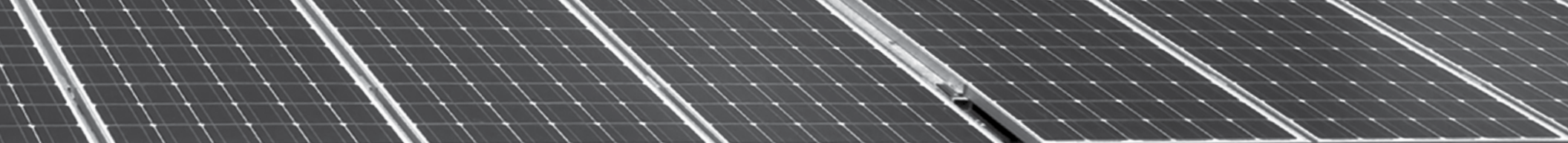


AGM - R SERIES

This range of dual purpose sealed maintenance-free 12 volt AGM 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	M6-TP08	10.25" 26cm	6.75" 17.2cm	9.33" 23.7cm	51lbs 23kg
R12-100AGM	12 V	100	M8-TP08	12" 30.5cm	6.66" 16.9cm	9.33" 23.7cm	60lbs 27kg
R12-110AGM	12 V	110	M8-TP08	13" 32.8cm	6.625" 17.2cm	9.66" 22cm	66lbs 30kg
R12-200AGM	12 V	200	M8-TP08	20.86" 53cm	8.25" 20.9cm	8.66" 21.9cm	123lbs 56kg
R12-260AGM	12 V	260	F-M8	20.5" 52.2cm	10.5" 26.8cm	8.85" 22.5cm	161lbs 73kg





*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.



R12-100AGM

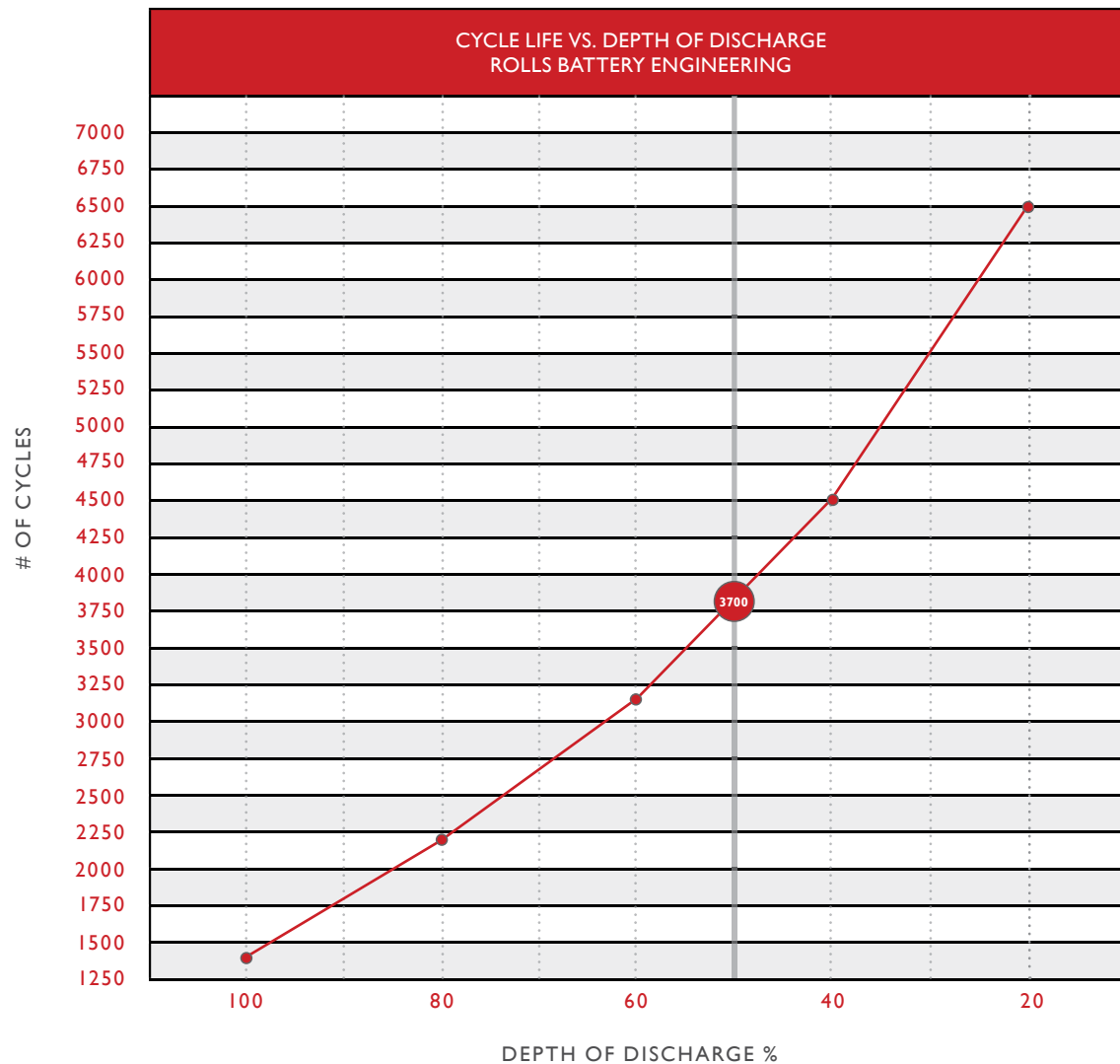
AGM - R FEATURES

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

GEL SERIES

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 IN CM	WEIGHT LBS KG
ROLLS BATTERY GEL: 2 VOLT							
S2-215GEL	200	215	F10(M8)	4.05" 10.3cm	8.11" 20.6cm	15.35" 39cm	37.04lbs 16.8kg
S2-270GEL	250	270	F10(M8)	4.88" 12.45cm	8.11" 20.6cm	15.35" 39cm	45.19lbs 20.5kg
S2-320GEL	300	320	F10(M8)	5.71" 14.5cm	8.11" 20.6cm	15.35" 39cm	54.01lbs 24.5kg
S2-375GEL	350	375	F10(M8)	4.88" 12.45cm	8.11" 20.6cm	19.92" 50.6cm	62.83lbs 28.5kg
S2-450GEL	420	450	F10(M8)	5.71" 14.5 cm	8.11" 20.6cm	19.92" 50.6cm	72.75lbs 33kg
S2-535GEL	490	535	F10(M8)	6.54" 16.6cm	8.11" 20.6cm	19.92" 50.6cm	87.08 lbs 39.5kg
S2-640GEL	600	640	F10(M8)	5.71" 14.5 cm	8.11" 20.6cm	26.81" 68.1cm	105.82lbs 48kg
S2-855GEL	800	855	F10(M8)	7.52" 19.1 cm	8.27" 21cm	68.1" 26.81cm	142.2lbs 64.5kg
S2-1070GEL	1000	1070	F10(M8)	9.17" 23.3cm	8.27" 21cm	68.1" 26.81cm	176.37lbs 80kg
S2-1295GEL	1200	1295	F10(M8)	10.83" 27.5cm	8.27" 21cm	68.1" 26.81cm	207.83lbs 94kg
S2-1600GEL	1500	1600	F10(M8)	10.83" 27.5cm	8.27" 21cm	83.1" 32.72cm	242.51lbs 110kg
S2-2140GEL	2000	2140	F10(M8)	15.71" 39.9cm	8.43" 21.4cm	31.77" 31.77cm	330.69lbs 150g
S2-2680GEL	2500	2680	F10(M8)	19.17" 48.7cm	8.35" 21.2cm	31.77" 31.77cm	418.88lbs 190kg
S2-3220GEL	3000	3220	F10(M8)	22.68" 57.6cm	8.35" 21.2cm	31.77" 31.77cm	496.04lbs 225kg



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
- Wide range of capacities & standard sizes

*see Rolls Battery User Manual for installation instructions.



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				
SERIES	APPLICATION	FULL REPLACEMENT PERIOD (MONTHS)	PRO-RATED WARRANTY PERIOD (MONTHS)	TOTAL WARRANTY PERIOD
RENEWABLE ENERGY				
4000	RENEWABLE ENERGY	24	60	84 MONTHS 7 YEARS
4500	RENEWABLE ENERGY	36	48	84 MONTHS 7 YEARS
5000	RENEWABLE ENERGY	36	84	120 MONTHS 10 YEARS
AGM				
S-SERIES	RENEWABLE ENERGY	24	60	84 MONTHS 7 YEARS
R-SERIES	RENEWABLE ENERGY	12	12	24 MONTHS 2 YEARS
OPzV GEL				
GEL	RENEWABLE ENERGY	36	24	60 MONTHS 5 YEARS

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



S2-3560AGM



S2-1070GEL



2 YS 62P

NOTES



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