



Rolls
BATTERY ENGINEERING

MARINE





MARINE SERIES

Rolls deep cycle lead-acid batteries have been the first choice of serious boaters for over 60 years.

Rolls



S12 27



R12-300LFP



S12-290AGM-RE



6CS 21P

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SERIES 4000

Our most popular marine models are based on the well recognized GC2/GC2H, Group 24, Group 27 and Group 31 sizes. These Rolls flooded deep cycle models are specifically designed for the marine environment, offering exceptional capacity, crank amps, cycle life and the highest lead content and liquid reserves of any deep cycle marine battery.

MODEL	20 HR RATE	RESERVE CAPACITY	CCA @ 0F	MCA @ 32F	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
12 VOLT									
SI2 24	85	150	550	690	DT	11" 27.9cm	6.75" 17.1cm	9.38" 23.8cm	47.5lbs 21.5kg
SI2 27	105	185	660	825	DT	12.63" 32.1cm	6.75" 17.1cm	9.38" 23.8cm	54lbs 24.5kg
SI2 31	130	216	670	906	DT	13.1" 33.3cm	6.75" 17.1cm	9.5" 24.1cm	65lbs 29.5kg
SI2 GC	155	284	563	703	UTL	13.1" 33.3cm	7.17" 18.2cm	10.8" 27.4cm	82.5lbs 37.5kg
I2 HHG 185P	185	444	713	891	FLAG	20.75" 52.7cm	8.75" 22.2cm	10" 25.4cm	121.5lbs 55kg
SI2 185	210	406	810	1013	DT	15.38" 39.1cm	7" 17.8cm	14.38" 36.5cm	114.5lbs 52kg
I2 EHG 210P	210	504	778	972	FLAG	20.75" 52.7cm	8.75" 22.2cm	12.38" 31.4cm	138lbs 62.5kg
I2 HHG 325P	325	780	1069	1337	FLAG	21.75" 55.2cm	13.25" 33.7cm	11.31" 28.7cm	199.5lbs 90.5kg
I2 EHG 375P	375	900	1166	1458	FLAG	21.75" 55.2cm	13.25" 33.7cm	12.19" 31cm	229.5lbs 104kg
I2 MD 325P	325	780	1069	1337	FLAG	18.5" 47cm	15.06" 38.3cm	11.06" 28.1cm	199.5lbs 90.5kg
I2 MD 375P	375	900	1166	1458	FLAG	18.5" 47cm	15.06" 38.3cm	12.56" 31.9cm	229.5lbs 104kg

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



S12 185

FEATURES

- Available in standard sizes
- Accept heavy discharging and charging
- High density paste
- Unsurpassed cycling
- 3 year warranty
- 12 year average life



12 HHG 325P

FEATURES

- Modular, removeable cells on many models
- Sealed cell construction
- Industry leading liquid reserves
- Precision, robotically welded cells
- Coast Guard approved cases on select 4000 Series models

SERIES 4000

Rolls Series 4000 2V, 6V & 8V models are also available in popular standard sizes, meeting the demand for high capacity storage in a minimal footprint. Many of Rolls Series 4000 6V & 8V Marine models combine dual-container modular cell construction with industrialgrade plate design to deliver reliable power for high-demand commercial marine applications.

MODEL	20 HR RATE	RESERVE CAPACITY	CCA @ 0F	MCA @ 32F	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
2 VOLT									
S2 LI6	1169	2263	2729	3411	LT	12.5" 31.8cm	7.13" 18.1cm	17" 43.2cm	120lbs 54.5kg
S2 LI6-HC	1335	2584	3119	3898	LT	12.5" 31.8cm	7.13" 18.1cm	17" 43.2cm	127lbs 57.5kg
S2 LI6-SC	1503	2909	3378	4223	LT	12.5" 31.8cm	7.13" 18.1cm	17" 43.2cm	130lbs 59kg
6 VOLT									
S6 GC2	210	406	547	684	DT	10.19" 25.9cm	7.13" 18.1cm	11" 27.9cm	61.5lbs 28kg
S6 GC2-HC	241	466	625	781	DT	10.19" 25.9cm	7.13" 18.1cm	11" 27.9cm	69.5lbs 31.5kg
S6 I45	250	484	710	888	DT	10.19" 25.9cm	7.13" 18.1cm	11.4" 29cm	70.5lbs 32kg
S6 250	281	544	799	998	DT	11.75" 29.8cm	7.13" 18.1cm	11.25" 28.6cm	88lbs 40kg
S6 305	305	619	878	1097	LT	12.25" 31.1cm	7.13" 18.1cm	14.25" 36.2cm	97lbs 44kg
S6 LI6	390	755	910	1137	LT	12.5" 31.8cm	7.13" 18.1cm	16.75" 42.5cm	112.5lbs 51kg
S6 LI6-HC	445	861	1040	1299	LT	12.5" 31.8cm	7.13" 18.1cm	16.75" 42.5cm	122.5lbs 55.5kg
S6 LI6-SC	487	943	1169	1462	LT	12.5" 31.8cm	7.13" 18.1cm	16.75" 42.5cm	124.5lbs 56.5kg
6 HHG 3IP	344	826	1337	1671	FLAG	20.75" 52.7cm	8" 20.3cm	11.88" 30.2cm	124.5lbs 56.5kg
6 EHG 3IP	410	984	1549	1936	FLAG	20.75" 52.7cm	8" 20.3cm	12.75" 32.4cm	132.5lbs 60kg
8 VOLT									
8 HHG 2IP	230	552	1033	1291	FLAG	21.25" 54cm	7.38" 18.7cm	11.13" 28.3cm	118lbs 53.5kg
8 HHG 25P	275	660	1239	1549	FLAG	24.5" 62.2cm	7.38" 18.7cm	11.5" 29.2cm	130lbs 59kg
8 M 23P	240	576	891	1114	FLAG	27" 68.6cm	7.25" 18.4cm	12" 30.5cm	127lbs 57.5kg
8 HHG 29P	300	720	1247	1559	FLAG	27" 68.6cm	7.25" 18.4cm	12" 30.5cm	150lbs 68kg
8 HHG 3IP	344	826	1337	1671	FLAG	27" 68.6cm	8" 20.3cm	11.88" 30.2cm	166.5lbs 75.5kg
8 EHG 3IP	410	984	1549	1936	FLAG	27" 68.6cm	8" 20.3cm	12.75" 32.4cm	177.5lbs 80.5kg

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

SERIES 4500

Available in 2V and 6V configurations, Rolls Series 4500 models offer the convenience of the popular L16 case design with added durability and cycle life found in our heavy grade Series 5000 plate construction. The result, a versatile L16 model with an impressive 3700 cycles @ 50% DOD, backed by an additional 1 year full replacement period over our standard Series 4000 L16 models.

(4 years full replacement warranty)

MODEL	20 HR RATE	RESERVE CAPACITY	CCA @ 0F	MCA @ 32F	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
2 VOLT									
S2 L16-EX	1040	2496	2438	3048	LT	12.5" 31.8cm	7.13" 18.1cm	17" 43.2cm	128lbs 58kg
6 VOLT									
S6 L16-EX	371	890	871	1088	LT	12.5" 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.

SERIES 5000

Rolls premium flooded deep cycle models feature dual-container construction, providing added durability and spill containment, while modular cell assembly offers easier transport & installation. The heavy plate construction and high liquid reserves result in extended cycle life and watering intervals.

MODEL	20 HR RATE	RESERVE CAPACITY	CCA @ 0F	MCA @ 32F	TERMINAL TYPE	LENGTH IN CM	WIDTH IN CM	HEIGHT IN CM	WEIGHT LBS KG
2 VOLT									
2 KS 33P	1837	4408	4406	5508	FLAG	15.44" 39.2cm	8.31" 21.1cm	24.81" 63cm	207lbs 94kg
2 OS 33P	1955	4692	4536	5670	FLAG	15.44" 39.2cm	8.31" 21.1cm	24.81" 63cm	221.5lbs 100.5kg
2 YS 27P	2190	5257	4975	6219	FLAG	14" 35.6cm	9" 22.9cm	31.63" 80.3cm	246lbs 111.5kg
2 YS 31P	2527	6065	5741	7176	FLAG	15.5" 39.4cm	9" 22.9cm	31.63" 80.3cm	284.5lbs 129kg
2 YS 62P	5054	12131	11482	14352	FLAG	27.38" 69.5cm	9" 22.9cm	31.63" 80.3cm	570lbs 258.5kg
4 VOLT									
4 CS 17P	568	1363	1393	1742	FLAG	14.38" 36.5cm	8.25" 21cm	18.25" 46.4cm	128lbs 58kg
4 KS 21P	1148	2756	2754	3443	FLAG	15.75" 40cm	9.38" 23.81cm	24.75" 62.9cm	267lbs 121kg
4 KS 25P	1404	3370	3305	4131	FLAG	15.75" 40cm	10.63" 27cm	24.75" 62.9cm	314lbs 142.5kg
4 KS 27P	1518	3644	3580	4475	FLAG	15.75" 40cm	10.63" 27cm	24.75" 62.9cm	338.5lbs 153.5kg
6 VOLT									
6 CS 17P	568	1363	1393	1742	FLAG	22" 55.9cm	8.25" 21cm	18.25" 46.4cm	220.5lbs 100kg
6 CS 21P	710	1705	1742	2177	FLAG	22" 55.9cm	9.75" 24.8 cm	18.25" 46.4cm	270lbs 122.5kg
6 CS 25P	853	2047	2090	2612	FLAG	22" 55.9cm	11.25" 28.6cm	18.25" 46.4cm	317.5lbs 144kg
6 CS 27P	929	2229	2264	2830	FLAG	22" 55.9cm	11.25" 28.6cm	18.25" 46.4cm	341.5lbs 155kg
8 VOLT									
8 CS 17P	568	1363	1393	1742	FLAG	28.25" 71.8cm	8.25" 21cm	18.25" 46.36cm	293lbs 133kg
8 CS 25P	853	2047	2090	2612	FLAG	28.25" 71.8cm	11.25" 28.6cm	18.25" 46.36cm	423.5lbs 192kg
8 CS 27P	929	2229	2264	2830	FLAG	28.25" 71.8cm	11.25" 28.6cm	18.25" 46.4cm	456lbs 207kg
12 VOLT									
12 CS 11P	371	891	871	1088	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.



S6 LI6-EX

4500 FEATURES

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

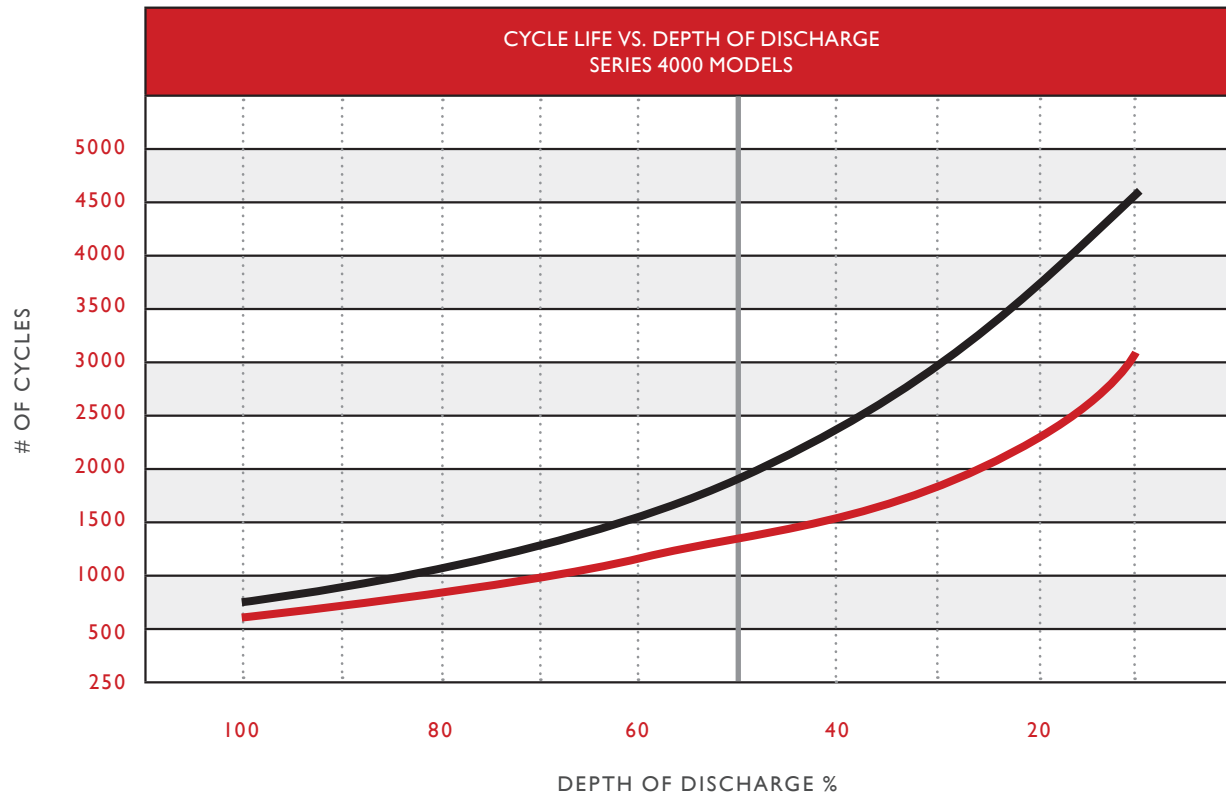


6 CS 25P

5000 FEATURES

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

SERIES 4000 CYCLE LIFE VS DOD



■ SERIES 4000
■ 2 & 6 VOLT L-16 MODELS

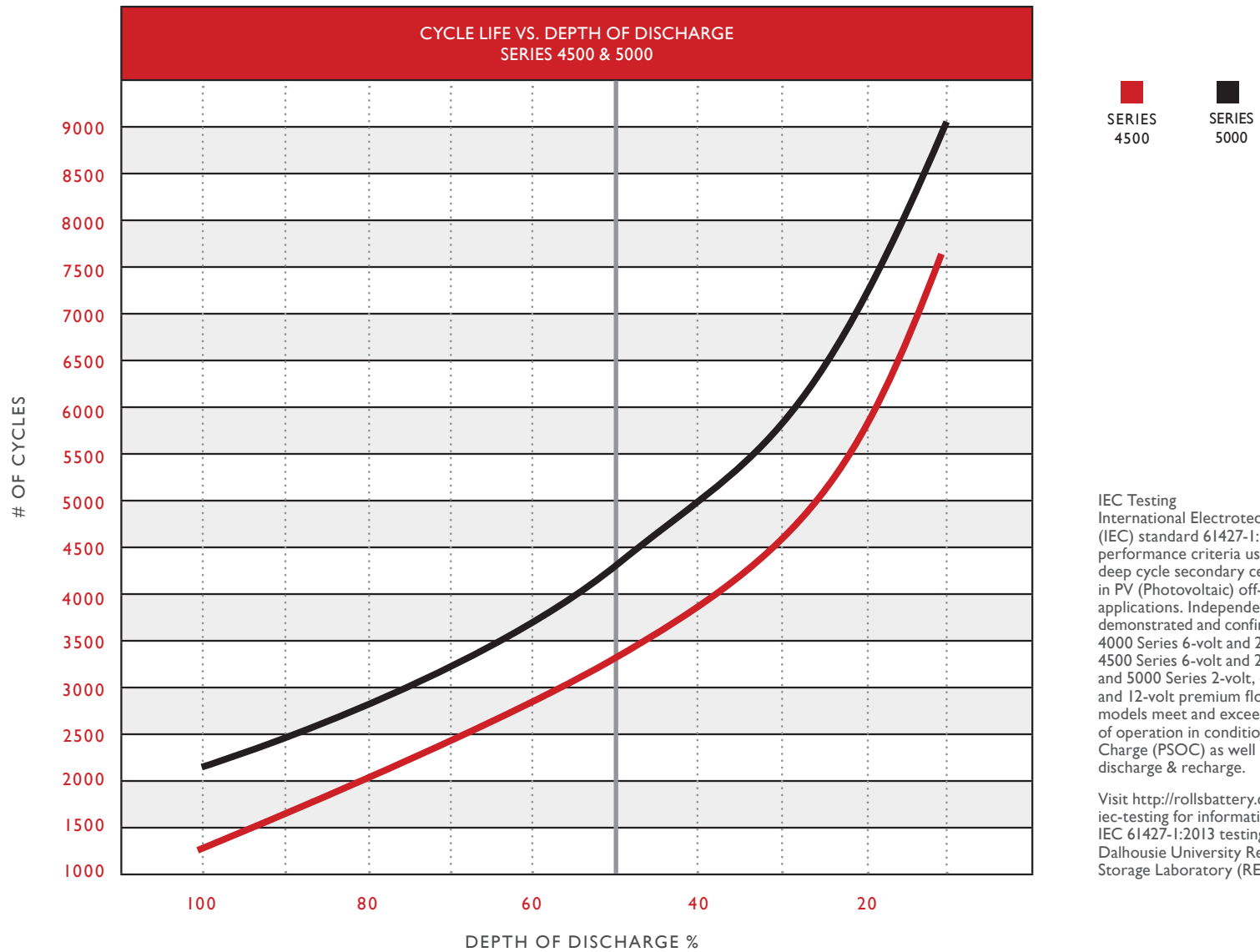
IEC Testing
 International Electrotechnical Commission's (IEC) standard 61427-1:2013 outlines performance criteria used to measure all deep cycle secondary cells and batteries used in PV (Photovoltaic) off-grid energy storage applications. Independent IEC testing has demonstrated and confirmed that Rolls Battery 4000 Series 6-volt and 2-volt L-16 models, 4500 Series 6-volt and 2-volt L-16 models, and 5000 Series 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)

*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.



SERIES 4500 & 5000 CYCLE LIFE VS DOD



IEC Testing
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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 (UL1642)
- IEC62133 (cell), IEC62619(cell), ROHS (cell)
- UN38.3 (cell/pack)
- CE system certification
- IP65 Rating

R - SERIES FEATURES

- Cylindrical LiFePO₄ 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 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.



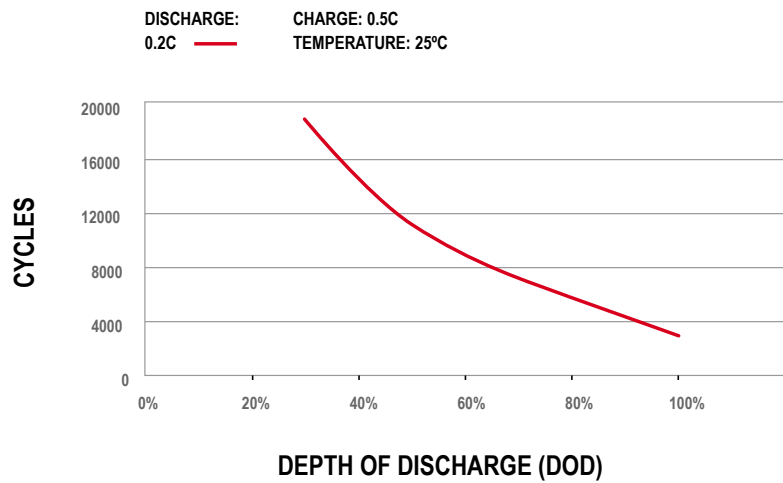
R24-50LFP

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)

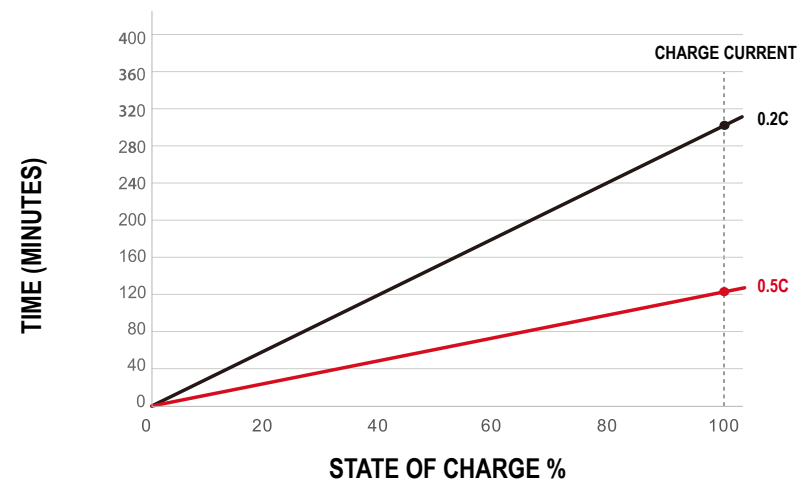


R - S E R I E S L F P

CYCLE LIFE VS DEPTH OF DISCHARGE @ 25°C



CHARGE TIME 0.2C / 0.5C @ 25°C



MAINTENANCE-FREE AGM-S

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 use in small recreational watercraft to large commercial vessels.

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	10.31" 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" 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	6.89" 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" 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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MAINTENANCE-FREE AGM-R

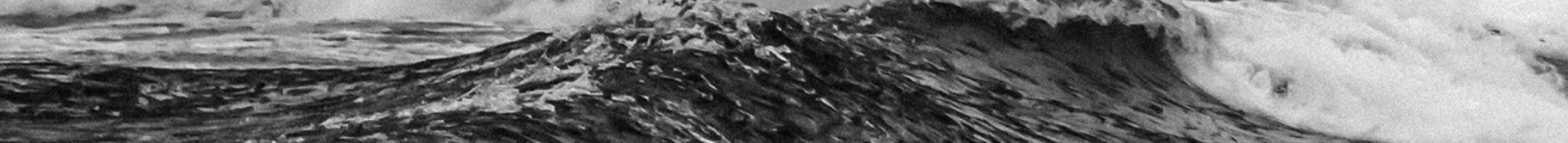
This range of dual purpose sealed maintenance-free 12 volt AGM batteries offering outstanding value and performance. The AGM-R line offers a lower self-discharge and an increased acceptance to charge current than conventional flooded wet batteries, allowing faster recharge. Incorporating all of the leading 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	DT	10.24" 26cm	6.75" 17.2cm	9.33" 23.7cm	51lbs 23kg
R12-100AGM	12 V	100	DT	12" 30.5cm	6.66" 16.9cm	9.33" 23.7cm	60lbs 27kg
R12-110AGM	12 V	110	DT	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	M8-TP08	20.5" 52.2cm	10.5" 26.8cm	8.85" 22.5cm	161lbs 73kg

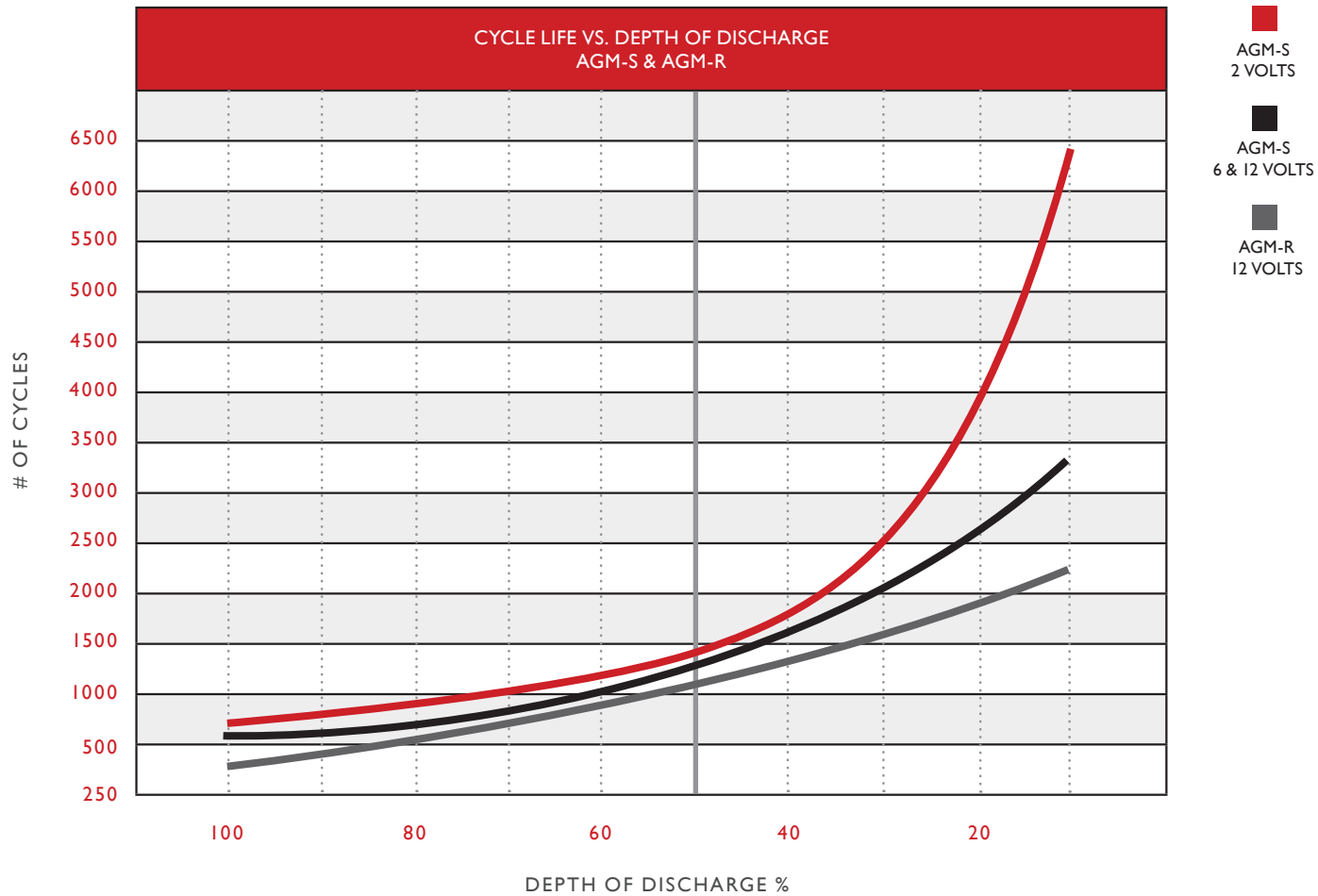
Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process, battery components & electrolyte levels.

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-S & AGM-R CYCLE LIFE VS DOD



*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.



S12-116AGM-RE

AGM-S FEATURES

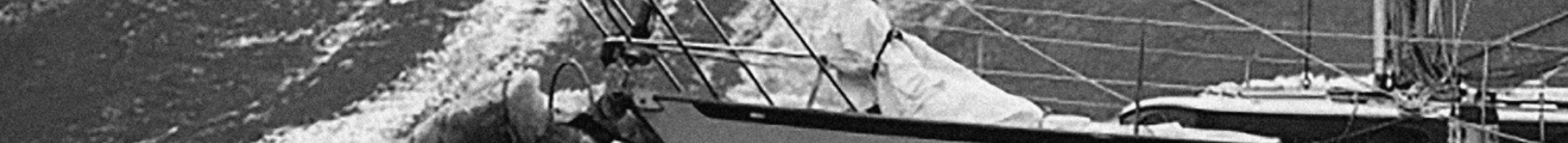
- Sealed construction
- New high-density active paste
- Heavy duty thick plates
- ABS case and cover
- Superior corrosion resistance
- Maintenance free, spill-proof/leak-proof
- Self regulating pressure release valves
- Low self discharge rate, only 3%/month
- Faster recharging time



R12-100AGM

AGM-R FEATURES

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



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 WARRANTY PERIOD
FLOODED		
4000	MARINE	36 MONTHS 3 YEARS
4500	MARINE	48 MONTHS 4 YEARS
5000	MARINE	60 MONTHS 5 YEARS
LFP		
R-SERIES LFP	MARINE	36 MONTHS 3 YEARS
AGM		
AGM-S	MARINE	24 MONTHS 2 YEARS
AGM-R	MARINE	12 MONTHS 1 YEAR

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



S6-460AGM-RE



12 HHG 185P



S6 GC2-HC



Ryal



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