



*Rolls*

BATTERY ENGINEERING

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**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



S12-135LFP



S6-460AGM-RE

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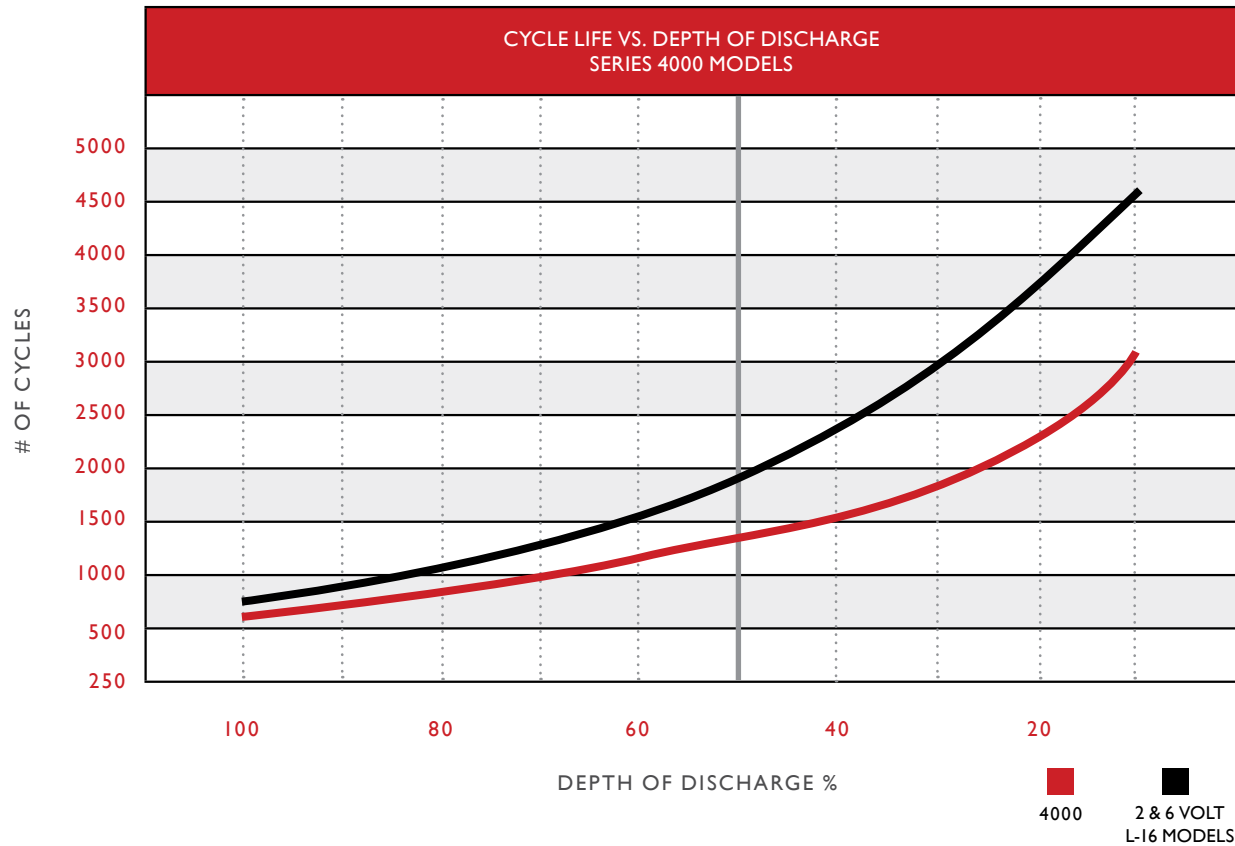
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## SERIES 4000

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
<b>ROLLS BATTERY SERIES 4000: 2 VOLT</b>							
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
<b>ROLLS BATTERY SERIES 4000: 6 VOLT</b>							
S6 GC2-HC	241	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	112.5lbs   51kg
S6 LI6-HC	445	L-16	LT	12.5"   31.8cm	7.13"   18.1cm	16.75"   42.5cm	122.5lbs   55.5kg
<b>ROLLS BATTERY SERIES 4000: 12 VOLT</b>							
SI2 24	85	24	DT	11"   27.9cm	6.75"   17.1cm	9.38"   23.8cm	47.5lbs   21.5kg
SI2 27	105	27	DT	12.63"   32.1cm	6.75"   17.1cm	9.38"   23.8cm	54lbs   24.5kg
SI2 31	130	31	DT	13"   33cm	6.75"   17.1cm	9.50"   24.1cm	65lbs   29.5kg
SI2 GC	155	GC12	UTL	13.13"   33.3cm	7.17"   18.2cm	10.80"   27.4cm	82.5lbs   37.5kg
SI2 I85	210	921	DT	15.38"   39.1cm	7"   17.8cm	14.38"   36.5cm	114.5lbs   52kg

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).



S2 L16-HC

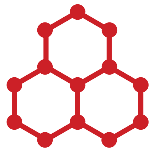
**4000 FEATURES**

- 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**

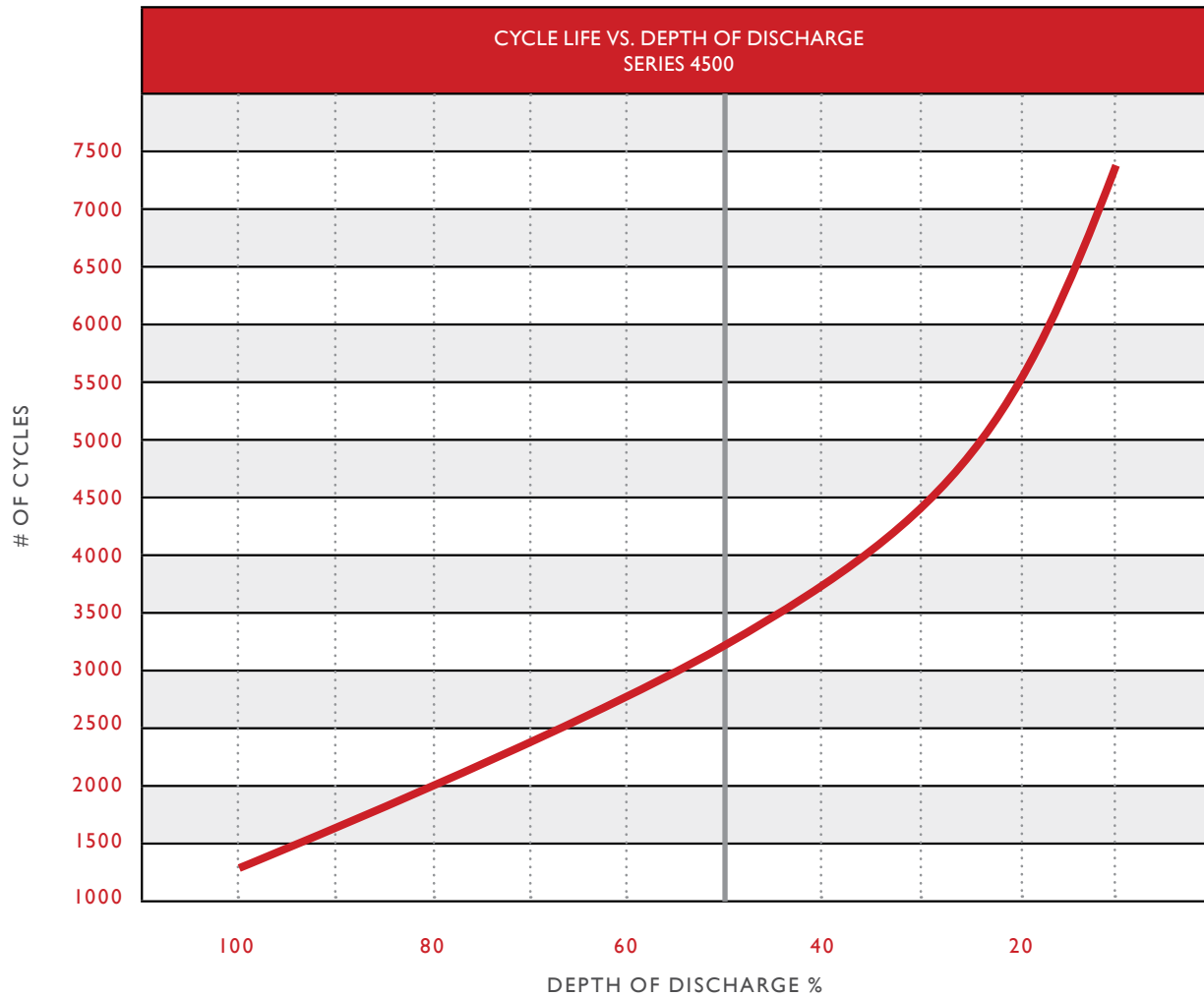
- Quicker & More Efficient Charging
- Improved Cycle Life
- Higher Capacity
- Enhanced PSOC Performance

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

<b>ROLLS ACCESSORIES</b>		
		
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.

**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-EX

S2 L16-EX

**4 5 0 0 F E A T U R E S**

- 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.

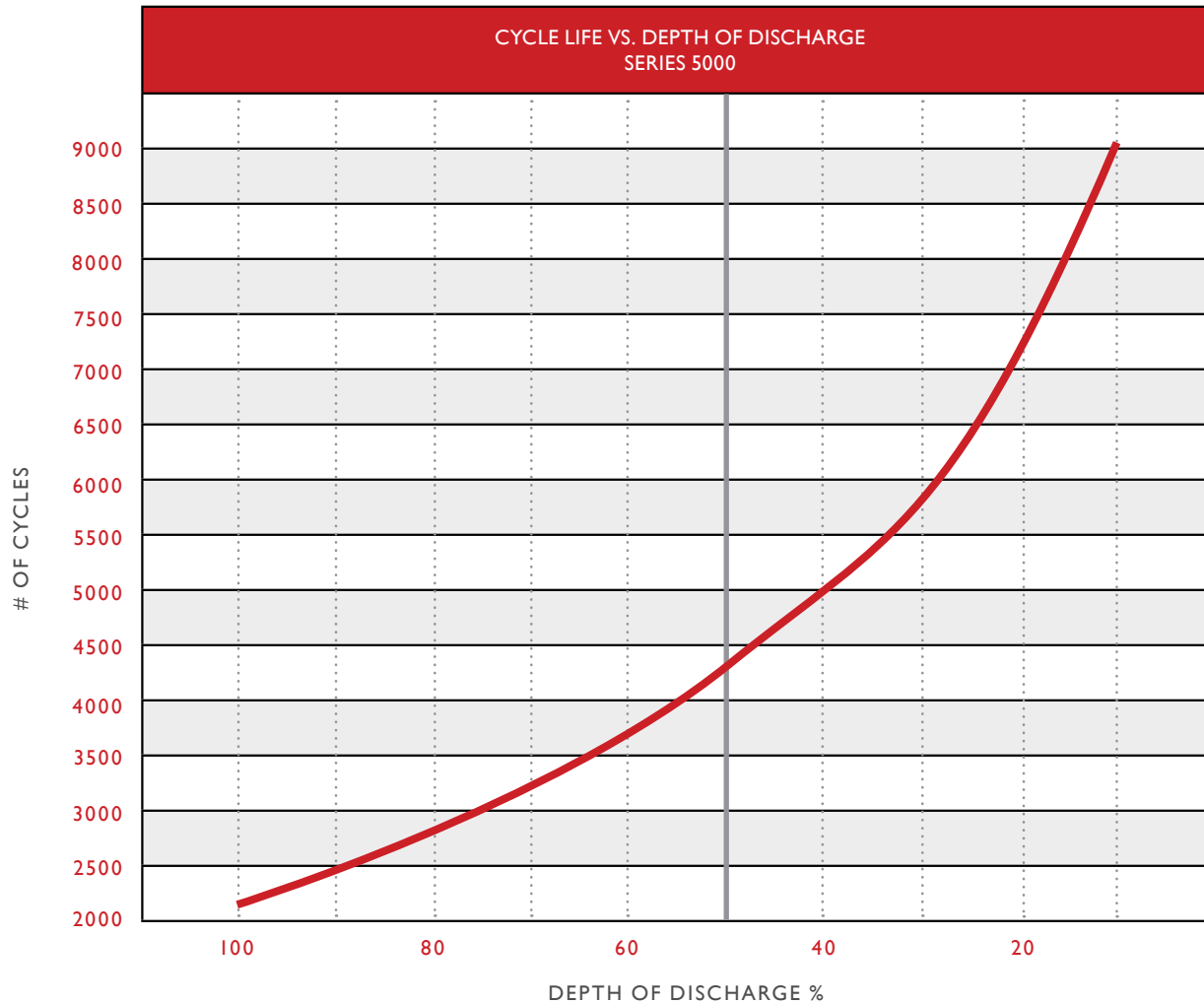


### ADVANCED NAM

- 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
<b>ROLLS BATTERY SERIES 5000: 2 VOLT</b>							
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
<b>ROLLS BATTERY SERIES 5000: 4 VOLT</b>							
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
<b>ROLLS BATTERY SERIES 5000: 6 VOLT</b>							
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
<b>ROLLS BATTERY SERIES 5000: 8 VOLT</b>							
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
<b>ROLLS BATTERY SERIES 5000: 12 VOLT</b>							
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.



\*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 4500 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)



2 KS 33P    2 YS 31P

**ENHANCED  
PERFORMANCE  
& CYCLE LIFE**



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

- 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





## R - S E R I E S L F P

Rolls high performance 12V & 24V Lithium-Iron-Phosphate (LiFePO<sub>4</sub>) 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
<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

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



R12-135LFP

## R - SERIES SAFETY & CERTIFICATION

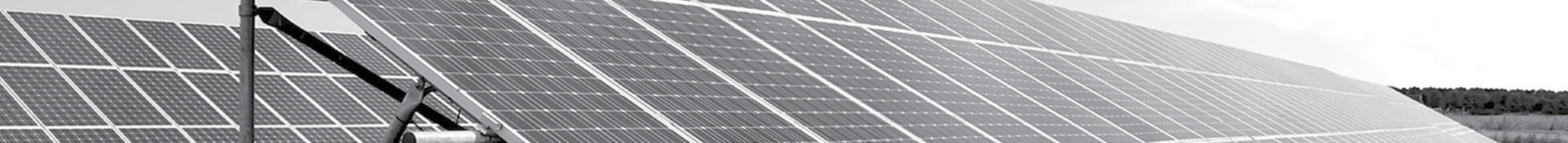
- Built-in Battery Management System (BMS)
- Cylindrical LiFePO<sub>4</sub> cells (UL1642)
- IEC62133 (cell), IEC62619(cell), ROHS (cell)
- UN38.3 (cell/pack)
- CE system certification
- IP65 Rating



R24-100LFP

## R - SERIES FEATURES

- Cylindrical LiFePO<sub>4</sub> cells
- Standard-size (BCI) ABS container for easy VRLA AGM replacement
- Lightweight, compact design with standard M8 terminal
- Fast charge/discharge performance
- Battery Management System (BMS) for balanced charging & protections
- Bluetooth connectivity & dedicated Rolls LFP Connect App
- 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
- 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

CONNECTION*		
MODEL	SERIES	PARALLEL
12V MODELS	4	4
	1	6
24V MODELS	2	4
	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 & S-Series Drop In 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)





## 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	13.03"   331mm	6.73"   171mm	9.02"   229mm	34.2lbs   15.5kg
S12-150LFP	12.8V	150	1.92 kWh	31	M8	13.03"   331mm	6.73"   171mm	9.02"   229mm	35.3lbs   16kg
S12-200LFP	12.8V	200	2.56 kWh	49	M8	19.76"   502mm	7.28"   185mm	9.29"   236mm	50.7lbs   23kg
S12-300LFP	12.8V	300	3.84 kWh	8D	M8	20.55"   522mm	10.55"   268mm	9.13"   232mm	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	19.76"   502mm	7.28"   185mm	9.29"   236mm	51.8lbs   23.5kg
S24-150LFP	25.6V	150	3.84 kWh	8D	M8	20.55"   522mm	10.55"   268mm	9.13"   232mm	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.



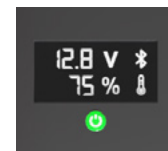
S24-100-LFP



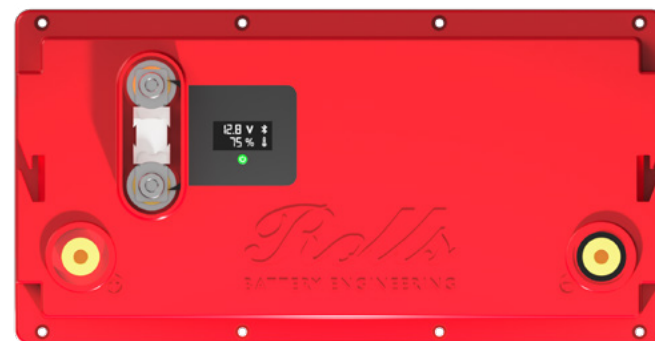
S12-100LFP

## 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 Roll's 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
	1	6
24V MODELS	2	4
	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 & S-Series Drop In LFP Battery Operating Manual for detailed instructions.



S12-200LFP

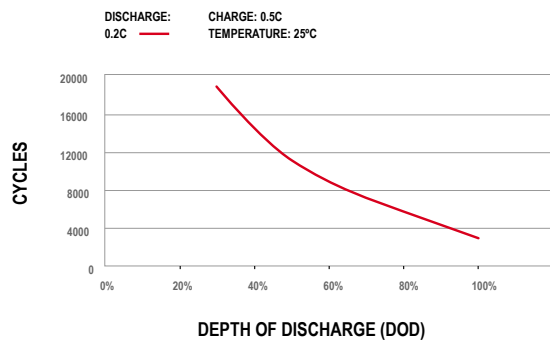
OPERATING TEMPERATURE RANGE	
CHARGE	* -20°C (-4°F)~55°C (131°F)
DISCHARGE	-20°C (-4°F)~60°C (140°F)
STORAGE	-5°C (23°F)~45°C (113°F)

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

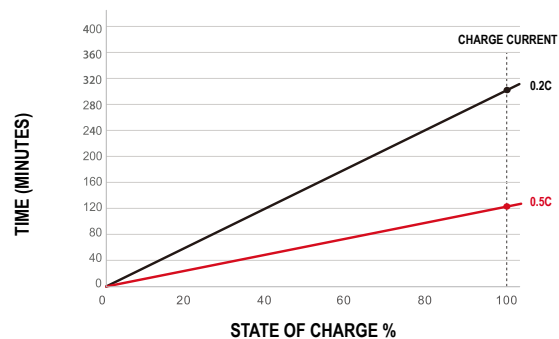


## R-SERIES & S-SERIES LFP

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



### CHARGE TIME 0.2C / 0.5C @ 25°C



FEATURES	R-SERIES LFP	S-SERIES LFP
Built-in BMS with Operating Protections	•	•
Cylindrical Cells	•	•
Improved construction with high current busbar		•
Up to 4 x Series (48V configuration)	•	•
Up to 4 x Parallel	•	•
Up to 6 x Parallel (no series connection)	•	•
Max Continuous Charge / Discharge (.5C / 1C)	•	
Max Continuous Charge / Discharge (1C / 1C)		•
Bluetooth	•	•
Dedicated App	•	•
Integrated Display & Controls		•
Visual SOC Indicator		•
Heating		•
External Fuse Access		•
Removable Cover*		•
Warranty: 36 Months   3-Years	•	
Warranty: 60 Months   5-Years		•

\* Field serviceable by an Authorized Technician



## S - SERIES 48V LFP ESS

Rolls ULI973-certified high performance S48-100LFP ESS offers a compact 48V 100Ah energy storage solution in a 4U case design for installation in standard 19" racking systems. Featuring a customized BMS, primary and secondary operating protections, an integrated display & controls showing real-time state-of-charge and error indication, external breaker access, CAN BUS, RJ485 & PC Connectivity. For increased capacity, up to 16 units may be connected in parallel.

An optional Rolls LFP ESS Cabinet with fully integrated combiner boxes, top-mount connections, locking casters and modular construction for up to eight (8) 2U, 3U or 4U unit installation is also available.

MODEL	VOLTAGE	RATED CAPACITY [Ah]	RATED CAPACITY [kWh]	BCI	TERMINAL TYPE	LENGTH IN   MM	WIDTH IN   MM	HEIGHT IN   MM	WEIGHT LBS   KG
<b>48 VOLT</b>									
<b>S48-100LFP ESS</b>	51.2V	100	5.12 kWh	4U	M8	21.8"   555mm	17.4"   442mm	6.8"   173mm	111.3lbs   50.5kg

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

- 19" rack compatible case design
- Integrated display with controls
- State-of-charge & error indication
- Customized BMS with operating protections
- CAN BUS & RJ485
- PC Connectivity
- Secondary protection
- External breaker access
- Optional modular 4U cabinet
- ULI973



S48-100LFP ESS



Rolls Custom ESS Cabinet

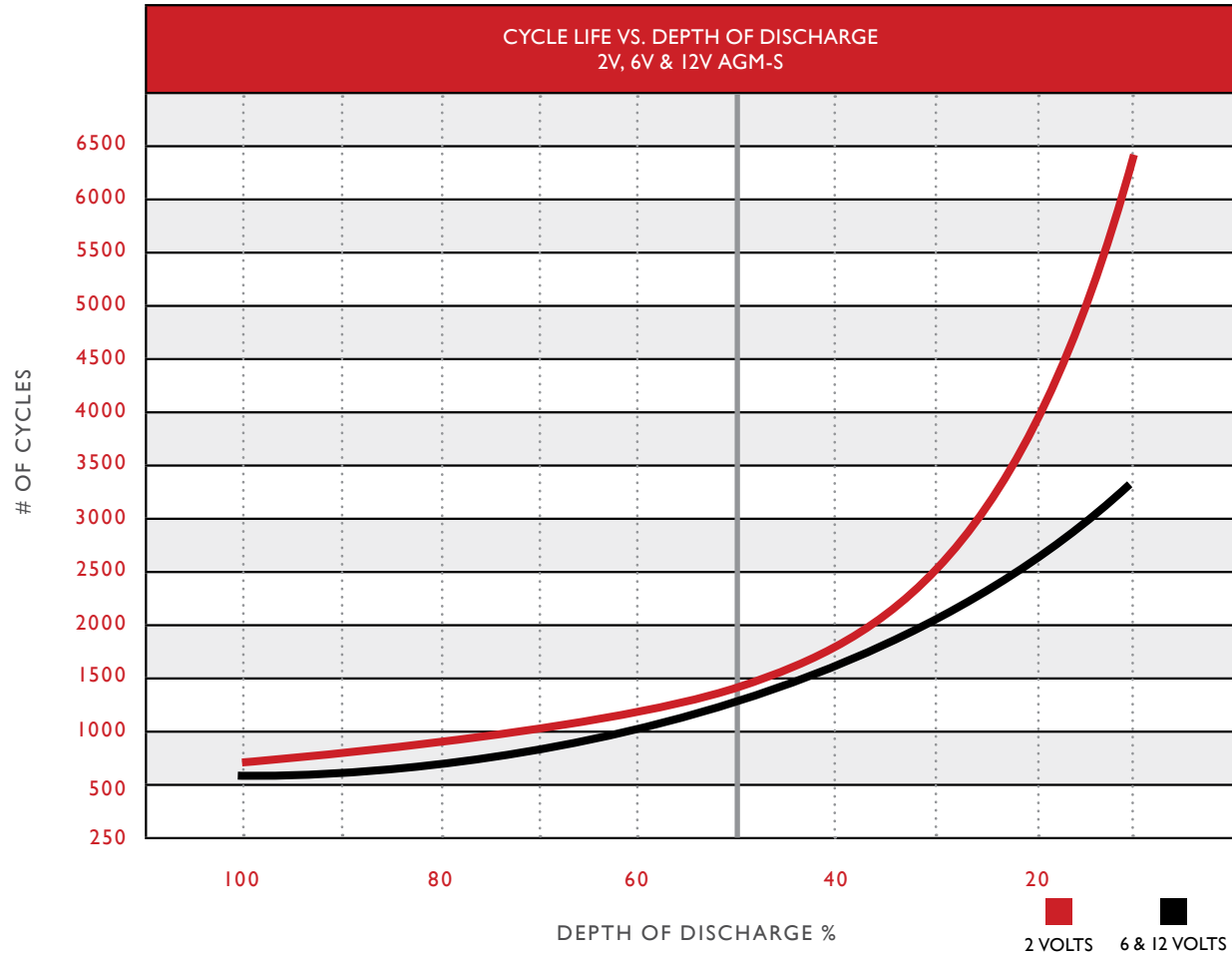


## AGM - S

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   MM	WIDTH IN   MM	HEIGHT (incl. terminal) IN   MM	WEIGHT LBS   KG
<b>ROLLS BATTERY AGM-S: 2 VOLT</b>							
S2-1275AGM-RE	2 V	1150	M10	11.61"   295mm	7.05"   179mm	16.69"   424mm	127lbs   57.5kg
<b>ROLLS BATTERY AGM-S: 6 VOLT</b>							
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

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.



S2-1275AGM-RE

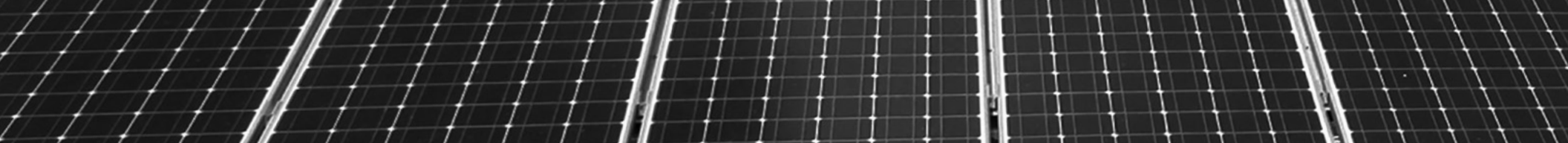
## AGM-S FEATURES

- 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

M8 / M10 (8/10mm)	TP08 Adapter	LT (Lug Terminal)	M8 Stud & Auto	M8 / M10 & Auto

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



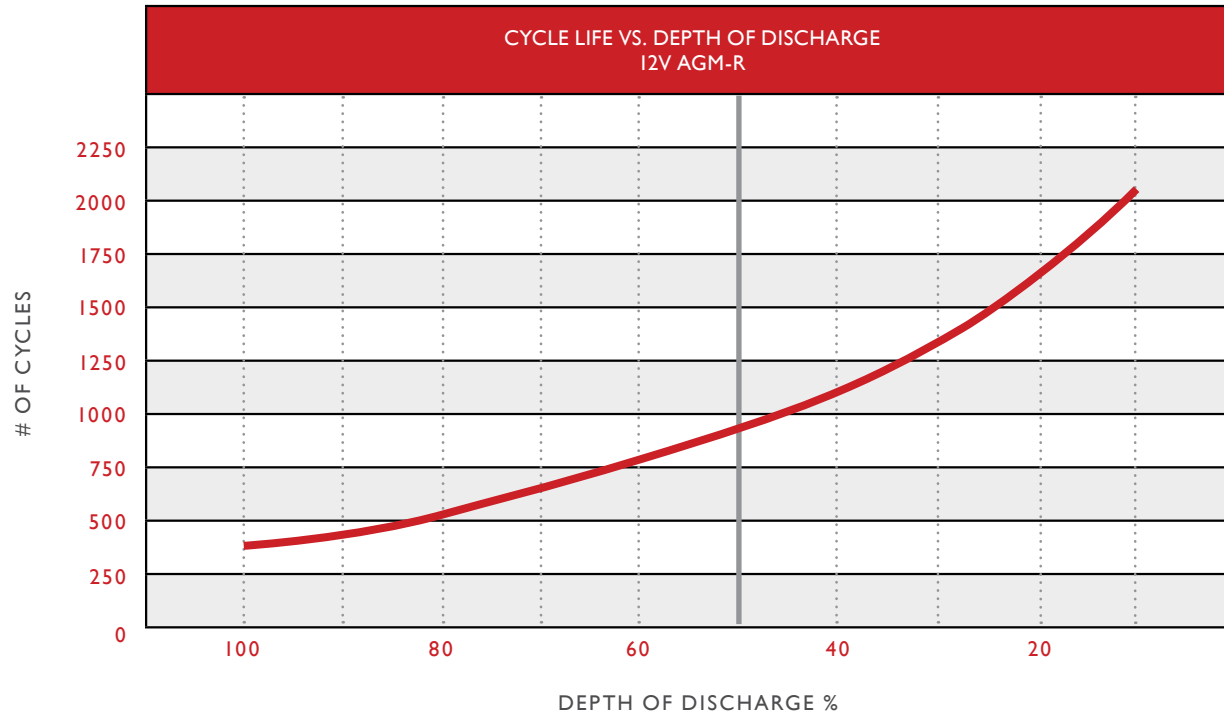
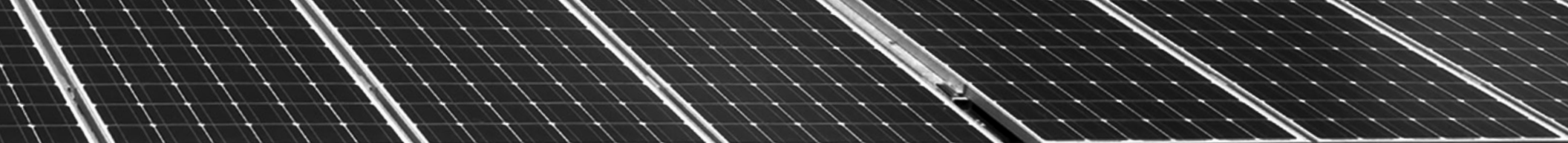
## AGM - R

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   MM	WIDTH IN   MM	HEIGHT (incl. terminal) IN   MM	WEIGHT LBS   KG
<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.





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

\*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.

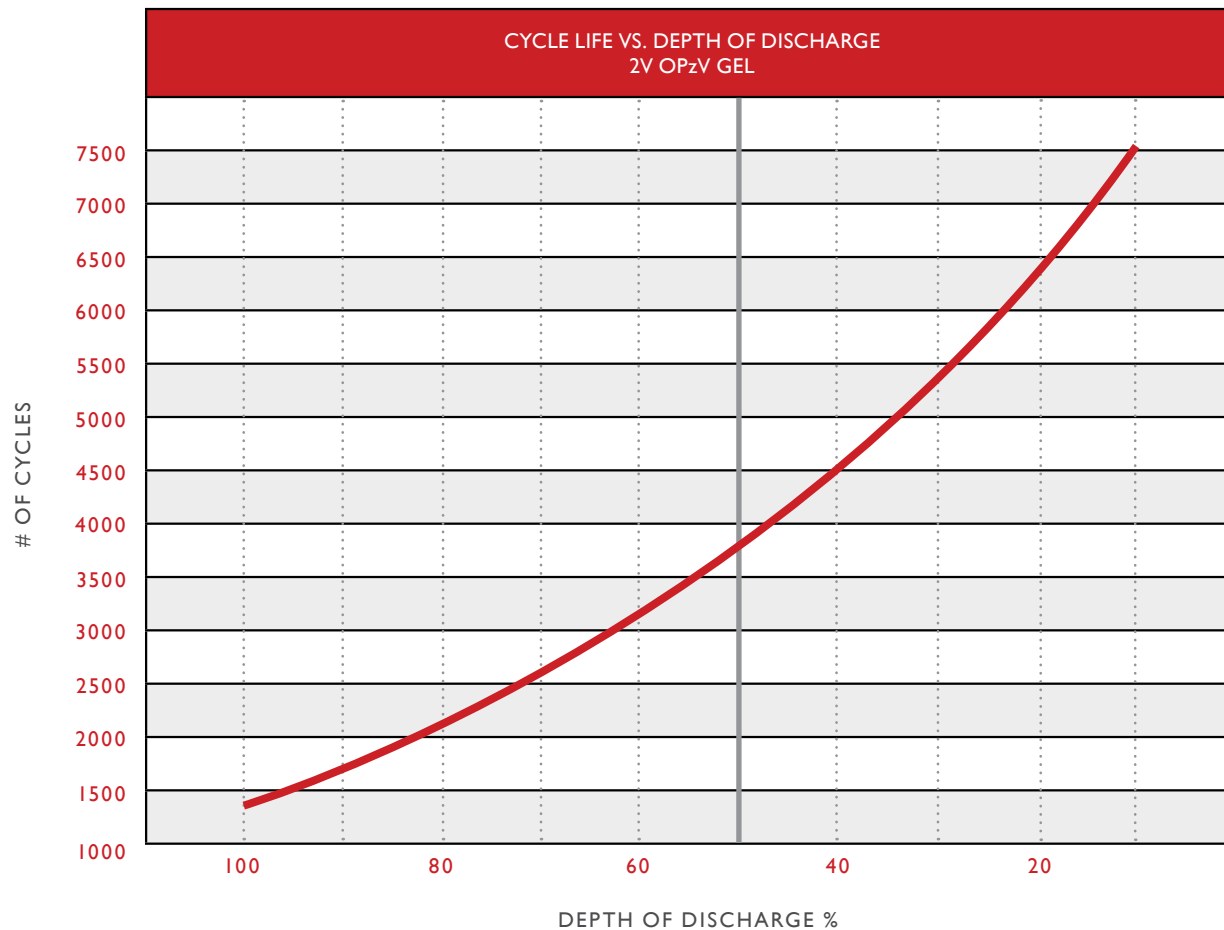
## GEL MODELS

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
<b>ROLLS BATTERY GEL: 2 VOLT</b>							
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	
LFP	R-SERIES	36 MONTHS   3 YEARS	
	S-SERIES	60 MONTHS   5 YEARS	
AGM	AGM-S	RENEWABLE ENERGY	36 MONTHS   3 YEARS
		MARINE & RV	24 MONTHS   2 YEARS
		OTHER APPLICATIONS	12 MONTHS   1 YEAR
	AGM-R	12 MONTHS   1 YEAR	
GEL	RE/MARINE STANDBY	36 MONTHS   3 YEARS	
	OTHER APPLICATIONS	12 MONTHS   1 YEAR	

For full warranty terms & conditions, visit [www.rollsbattery.com](http://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



R12-300LFP



S2-1275AGM-RE



S2-1070GEL



2 YS 62P





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