

Roll's

RENEWABLE BROCHURE

World Class Battery Engineering
Flooded & AGM Batteries

ROLLS RENEWABLE



PRODUCT OF CANADA



WORLD CLASS BATTERY ENGINEERING

Rolls batteries are manufactured in Nova Scotia, Canada by the Surrette battery company, who have been in the battery manufacturing business since 1935.

Rolls batteries specialise in the production of deep cycle batteries for many market sectors in particular Renewable Energy and Remote Stand By Power operations.

Relied on worldwide, our batteries are internationally recognised for their dependability and rugged construction providing energy storage in the most challenging environments. It is not just the outstanding quality of our batteries that we are so well known for but also our continual advances in process, dedicated work force and unrivalled commitment to sustainability.

Rolls has an extensive product portfolio with both Flooded and AGM deep cycle battery ranges. We offer some distinctive advantages to our customers –

- **Premium Battery Brand**
- **Excellent Stock Availability**
- **Fast Order Processing & Delivery**
- **Technical Back Up & System Support**
- **Competitive Commercial Terms**
- **Controlled Distribution Channels**

USED IN SYSTEMS AROUND THE WORLD

Rolls premium deep cycle batteries have earned a reputation of reliability and dependability in the renewable energy market.

Dual container construction, high-density polyethylene materials and unique “resitox” plate design provide a life expectancy that is among the longest in the battery industry.

Rolls has been the battery of choice for thousands of system installations around the world in some of the harshest environments on the planet, it is our customers that give us this well-earned reputation.

We work closely with distributors and system integrators to ensure perfect product synergy with all leading inverter/charger manufacturers including SMA, Outback, Studer, Victron and Mastervolt to name a few.

Projects have ranged from remote village electrification in Africa and South America to large community Island systems in Scotland and the South Atlantic. Renewable energy and stand by power systems installed in the Middle East and for telecoms in Scandinavia, the list goes on...

We understand the reliance on quality components and system balance in any off grid and stand by power environment and fully appreciate the importance batteries have to the success of any remote based project.

Rolls
BATTERY ENGINEERING

4000 SERIES

Rolls 4000 Series Batteries

The Rolls 4000 series batteries are available in 2V, 6V or 12V configuration and offer a wide range of capacities. They have a long life expectancy and one of the longest warranty periods available.

Features:

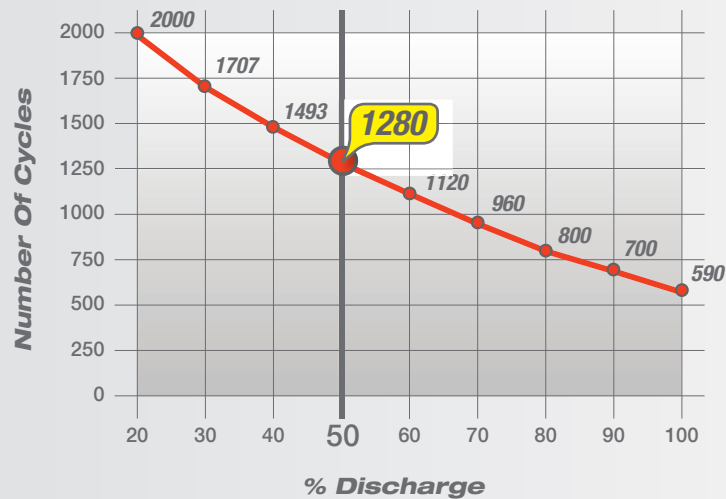
- **Thick Plate Design**
- **Highest Density Active Material**
- **Envelope Separators**
- **Increase Liquid Reserve**
- **Greater Rigidity**
- **Greater Durability**
- **Less Maintenance**



4000 Series - 7 Year Warranty

Part Number	Voltage	Capacity in Ah			Dimensions (mm) L x W x H	Weight Dry (Kg)	Weight Wet (Kg)
		C100	C20	C10			
SERIES 4000 - 2 VOLT (1 CELL) - POLYPROPELENE CONTAINER							
S1380	2V	1380Ah	1050Ah	893Ah	334 x 181 x 432	37.0	52.0
S1590	2V	1596Ah	1200Ah	1020Ah	334 x 181 x 432	39.0	55.0
S1725	2V	1729Ah	1300Ah	1105Ah	334 x 181 x 432	42.0	57.0
SERIES 4000 - 6 VOLT (3 CELL) - POLYPROPELENE CONTAINER							
S460	6V	466Ah	350Ah	298Ah	320 x 181 x 426	35.0	49.0
S530	6V	532Ah	400Ah	340Ah	320 x 181 x 426	41.0	53.0
S600	6V	600Ah	450Ah	383Ah	320 x 181 x 426	44.0	55.0
SERIES 4000 - 12 VOLT (6 CELL) - POLYPROPELENE CONTAINER							
24HT 80	12V	106Ah	80Ah	68Ah	279 x 171 x 235	17.0	23.0
30H 125	12V	166Ah	125Ah	106Ah	345 x 171 x 240	27.0	34.0
T12 136	12V	181Ah	136Ah	116Ah	345 x 171 x 286	33.0	41.0
T12 250	12V	266Ah	200Ah	170Ah	391 x 178 x 365	44.0	57.0

Cycle Life vs. Depth of Discharge



4500 SERIES

NEW

Rolls 4500 Series Batteries

Rolls 4500 Series batteries provide the convenience and portability of our most popular L16 4000 Series models, combined with the extended capacity and cycle life found in the heavy duty 5000 Series batteries.



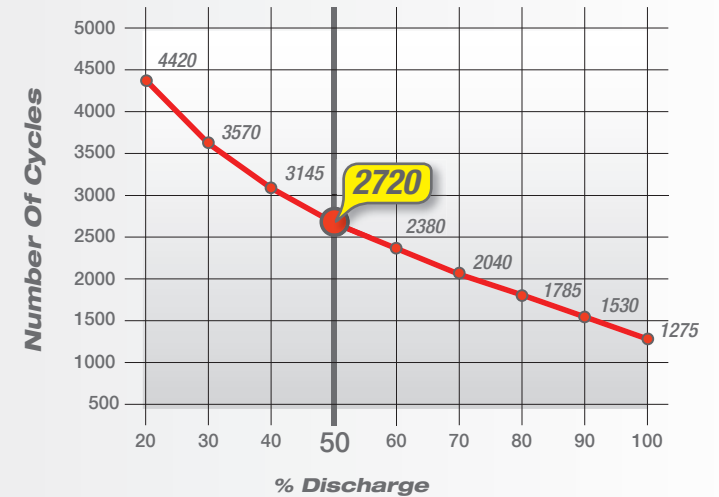
4500 Series - 7 Year Warranty

Part Number	Voltage	Capacity in Ah			Dimensions (mm) L x W x H	Dry Weight (Kg)	Wet Weight (Kg)
		C100	C20	C10			
4500 SERIES - 2 VOLT							
S-1400EX	2V	1408	1000	830	321 x 185 x 426	42.0	57.0
4500 SERIES - 6 VOLT							
S-500EX	6V	503	357	296	321 x 185 x 426	45.0	59.0

Features:

- **Compact Design - For Easy Handling and Installation**
- **Superior Cycling Performance - 2720 @ 50% D.O.D**
- **Extended Warranty For Maximum System Durability**
- **Rugged Plate Construction With Resistox Technology**
- **Full Pocket Enveloped Wrapped Positive Plates**
- **High Density Active Material Compound**

Cycle Life vs. Depth of Discharge



ACCESSORIES



Water-Miser

- Reduce Water Loss by up to 60%
- No Need To Ever Remove Caps
- Less Battery Maintenance
- Flame Retardent Characteristics



Maintenance Kit

- Distilled Water Dispenser
- PVC Apron
- Eye Wash
- PVC Gauntlet
- Safety Goggles
- Hazardous Sign
- Digital Multimeter



Battery Accessories

- Nuts and Bolts
- Battery Link Leads
- Terminal Covers



System Components

- Terminal Fuse Blocks
- CableCap Insulators
- Plus much more available...

5000 SERIES

Rolls 5000 Series Batteries

Rolls 5000 series batteries incorporate a new plate design with a larger surface area and higher density paste, providing increased performance for high current applications. Powerful and dependable, these models provide power for a wide range of renewable systems.

Features:

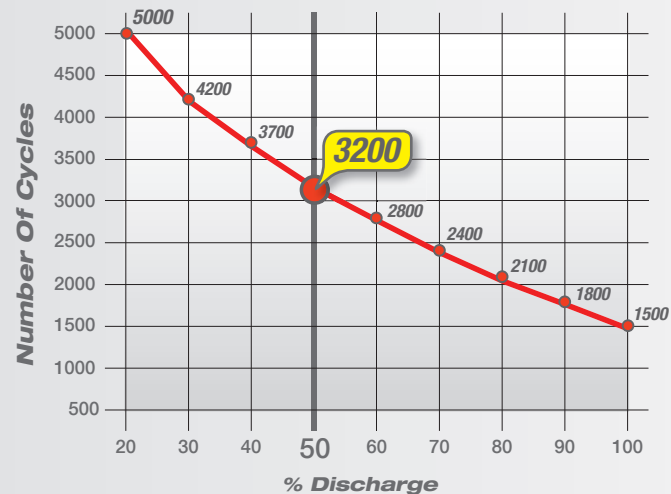
- **Dual Container Construction**
- **Thick Plate Design**
- **Highest Density Active Material**
- **Envelope Separators**
- **Increase Liquid Reserve**
- **Eliminate Stray Current**
- **No Acid Leakage**



5000 Series - 10 Year Warranty

Part Number	Voltage	Capacity in Ah			Dimensions (mm) L x W x H	Weight Dry (Kg)	Weight Wet (Kg)
		C100	C20	C10			
SERIES 5000 - 2 VOLT (1 CELL) - DUAL CONTAINER							
2 KS 33P	2V	2490Ah	1766Ah	1466Ah	392 x 211 x 630	66.0	94.0
2 OS 33P	2V	2655Ah	1880Ah	1560Ah	392 x 211 x 630	70.0	101.0
2 YS 31P	2V	3426Ah	2430Ah	2017Ah	394 x 229 x 803	91.0	129.0
SERIES 5000 - 4 VOLT (2 CELL) - DUAL CONTAINER							
4 CS 17P	4V	770Ah	546Ah	453Ah	365 x 210 x 464	44.0	58.0
4 KS 21P	4V	1557Ah	1104Ah	916Ah	400 x 238 x 629	98.0	121.0
4 KS 25P	4V	1904Ah	1350Ah	1121Ah	400 x 270 x 629	100.0	143.0
4 KS 27P	4V	2062Ah	1460Ah	1212Ah	400 x 270 x 629	113.0	154.0
SERIES 5000 - 6 VOLT (3 CELL) - DUAL CONTAINER							
6 CS 17P	6V	770Ah	546Ah	453Ah	559 x 210 x 464	81.0	100.0
6 CS 21P	6V	963Ah	683Ah	567Ah	559 x 248 x 464	98.0	123.0
6 CS 25P	6V	1156Ah	820Ah	681Ah	559 x 286 x 464	115.0	144.0
6 CS 27P	6V	1253Ah	893Ah	741Ah	559 x 286 x 464	124.0	155.0
SERIES 5000 - 12 VOLT (6 CELL) - DUAL CONTAINER							
12 CS 11P	12V	503Ah	357Ah	296Ah	599 x 286 x 464	100.0	123.0

Cycle Life vs. Depth of Discharge



AGM SERIES

Rolls AGM Batteries

Rolls has designed a Deep Cycle VRLA battery with high reserve capacity, long cycle life and low internal resistance, while achieving superior cranking performance. Rolls AGM batteries are the smart choice for demanding renewable applications.

They are designed and built differently than standard batteries. They use more lead, heavier plates and other proprietary materials that enable them to deliver more power and capacity over many life cycles.

Features:

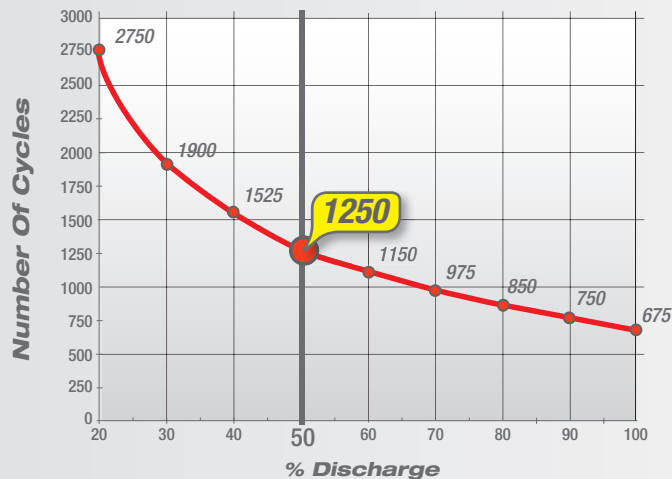
- **Sealed Construction - Maintenance Free**
- **High Density Plate - High Capacity**
- **Heavy Duty Thick Grids - True Deep Cycle Construction**
- **ABS Case and Cover - Shock and Vibration Resistant**
- **Low Internal Resistance - Faster Recharge**
- **Microporous Glass Matt Separator - Enhanced Electrolyte Retention**
- **All Standard Sizes Available - For All Application Requirements**



AGM Series - 5 Year Warranty

Part Number	Voltage	Capacity in Ah			Terminal Type	Dimensions (mm) L x W x H	Weight (Kg)
		C100	C20	C10			
AGM SERIES - 6 VOLT							
S6-275AGM	6V	275	250	229	M8-TP08	262 x 181 x 273	35
S6-370AGM	6V	370	335	300	DT	295 x 178 x 366	48
S6-460AGM	6V	460	415	374	DT	295 x 178 x 424	56
AGM SERIES - 12 VOLT							
S12-95AGM	12V	95	85	77	M8-TP08	260 x 169 x 237	25
S12-116AGM	12V	116	105	95	M8-TP08	307 x 169 x 233	30
S12-128AGM	12V	128	115	104	M8-TP08	328 x 172 x 236	33
S12-160AGM	12V	160	145	131	M8-TP08	341 x 173 x 309	44
S12-230AGM	12V	230	210	189	LT	530 x 209 x 238	61
S12-240AGM	12V	240	215	193	DT	381 x 178 x 371	60
S12-290AGM	12V	290	260	234	LT	521 x 269 x 245	78

Cycle Life vs. Depth of Discharge



Rolls Terminal Configurations

				
Post Terminal	DT (Dual Terminal)	LT (Lug Terminal)	M8 (Stud)	TP08 (Brass Post)

AGM SERIES

Rolls AGM batteries are sealed, maintenance free, non-hazardous and non-spillable. You will never need to add water to a Rolls AGM battery or worry about gassing or spilling of acid.

Operated upright or on their side, Rolls AGM batteries are also leak proof, shock and vibration resistant.

Rolls AGM batteries provide the performance and life of a true deep cycle battery with all the convenience and benefits of being maintenance free & non hazardous.

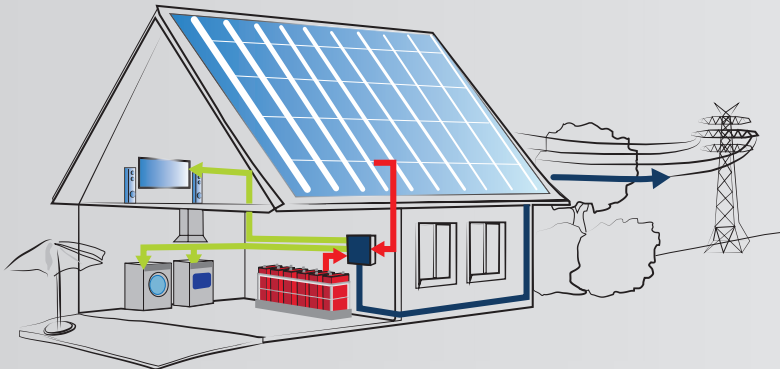


Part Number	Voltage	Capacity in Ah at			Terminal Type	Dimensions (mm) L x W x H	Weight (Kg)
		C100	C20	C10			
AGM SERIES - 2 VOLT							
S2-590AGM	2V	590Ah	550Ah	500Ah	M8	241 x 172 x 365	32.0
S2-945AGM	2V	945Ah	880Ah	800Ah	M8	414 x 175 x 365	54.0
S2-1180AGM	2V	1180Ah	1100Ah	1000Ah	M8	474 x 175 x 365	64.0
S2-1275AGM	2V	1275Ah	1200Ah	1150Ah	M10	295 x 178 x 424	58.0
S2-1895AGM	2V	1895Ah	1750Ah	1600Ah	M8	401 x 347 x 378	104.0
S2-2375AGM	2V	2375Ah	2200Ah	2000Ah	M8	490 x 349 x 382	130.0
S2-3560AGM	2V	3560Ah	3300Ah	3000Ah	M8	711 x 353 x 382	196.0

MODULAR BATTERY RACKS



SELF CONSUMPTION & STANDBY POWER



Electrical power generated by the sun and/or wind, and actual power consumption never match. The result is feedback of power into the grid when excess power is generated, and power needed from the grid when power generation is insufficient.

As more solar and wind power comes on line, it becomes increasingly difficult, and expensive, to ensure stability of the grid. Intermediate

energy storage is therefore rapidly becoming an essential tool to keep power fluctuations on the grid within manageable limits. Moreover, as feed-in tariffs are decreasing, the business case for a home energy storage system that increases self-consumption becomes more solid every day.

Rolls

www.rolls-battery.com