

# 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 Flooded 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:

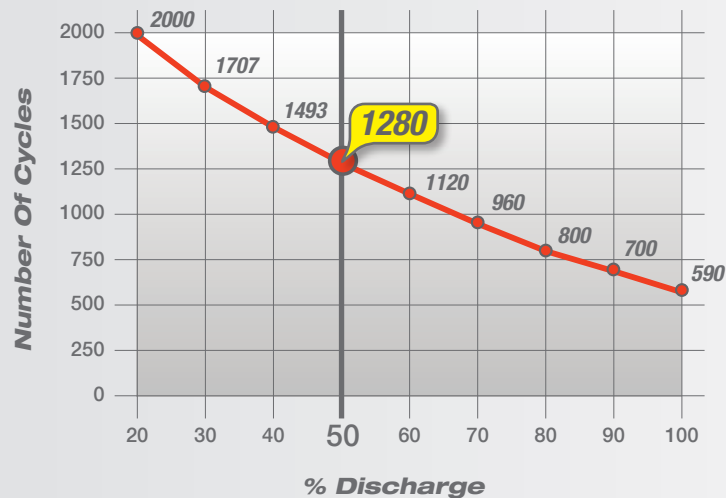
- **Thick Plate Design**
- **Highest Density Active Material**
- **Envelope Separators**
- **Increase Liquid Reserve**
- **Greater Rigidity**
- **Greater Durability**
- **Less Maintenance**



**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			
<b>SERIES 4000 - 2 VOLT (1 CELL) - POLYPROPELENE CONTAINER</b>							
S1450	2V	1452Ah	1124Ah	955	318 x 181 x 432	39.0	54.0
S1660	2V	1660Ah	1284Ah	1091	318 x 181 x 432	41.0	58.0
S1860	2V	1869Ah	1444Ah	1229	318 x 181 x 432	44.0	59.0
<b>SERIES 4000 - 6 VOLT (3 CELL) - POLYPROPELENE CONTAINER</b>							
S290	6V	293Ah	220Ah	187Ah	259 x 181 x 279	27.0	31.0
S480	6V	486Ah	375Ah	319Ah	318 x 181 x 425	35.0	49.0
S550	6V	554Ah	428Ah	364Ah	318 x 181 x 425	41.0	53.0
S605	6V	605Ah	468Ah	398Ah	318 x 181 x 425	44.0	57.0
<b>SERIES 4000 - 12 VOLT (6 CELL) - POLYPROPELENE CONTAINER</b>							
24HT 80	12V	106Ah	80Ah	68Ah	276 x 171 x 238	16.0	21.0
27HT 90	12V	120Ah	90Ah	77Ah	321 x 171 x 238	19.0	25.0
31HT 120	12V	148Ah	120Ah	101Ah	330 x 171 x 238	21.0	28.0
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

## Rolls Flooded 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.



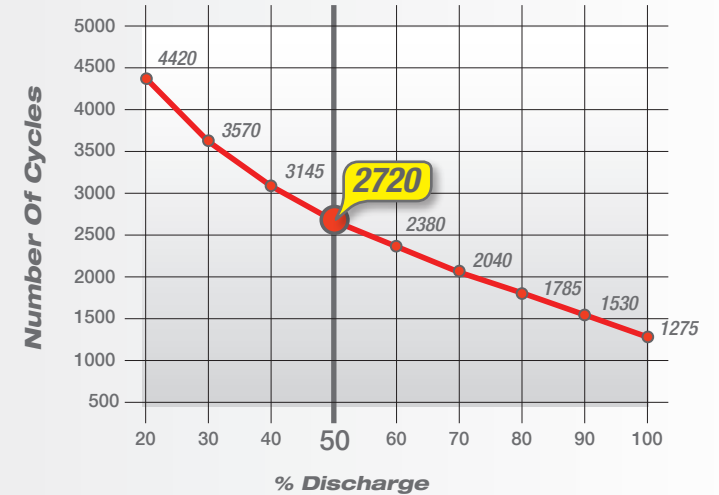
### 4500 Series - 7 Year Warranty

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

### Features:

- **Water-Miser Fitted As Standard**
- **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
- Hydrometer
- 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 Flooded 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:

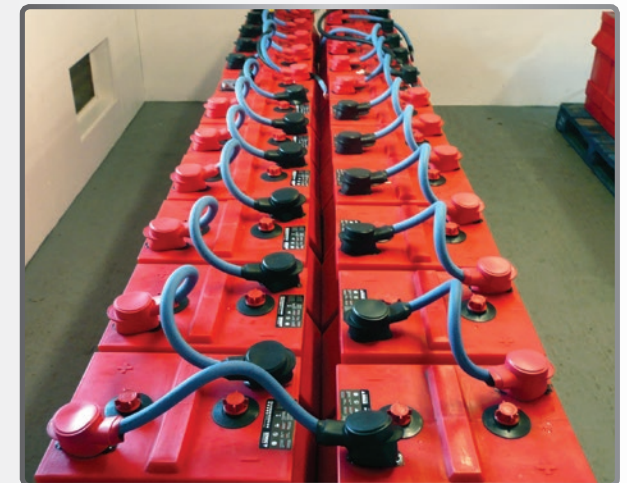
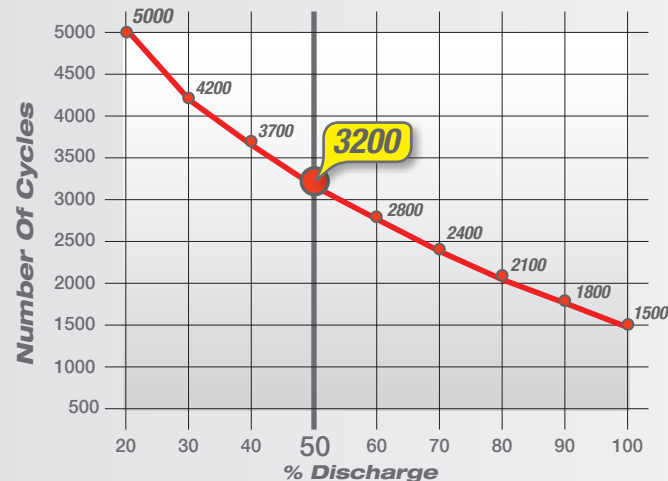
- **Water-Miser Fitted As Standard**
- **Dual Container Construction**
- **Thick Plate Design**
- **Highest Density Active Material**
- **Envelope Separators**
- **Increase Liquid Reserve**
- **Eliminate Stray Current**
- **No Acid Leakage**



**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			
<b>SERIES 5000 - 2 VOLT (1 CELL) - DUAL CONTAINER</b>							
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 27P	2V	2969Ah	2106Ah	1748Ah	394 x 299 x 803	77.0	112.0
2 YS 31P	2V	3426Ah	2430Ah	2017Ah	394 x 229 x 803	91.0	129.0
2 YS 62P	2V	6853Ah	4860Ah	4034Ah	695 x 299 x 803	181.0	259.0
<b>SERIES 5000 - 4 VOLT (2 CELL) - DUAL CONTAINER</b>							
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
<b>SERIES 5000 - 6 VOLT (3 CELL) - DUAL CONTAINER</b>							
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
<b>SERIES 5000 - 12 VOLT (6 CELL) - DUAL CONTAINER</b>							
12 CS 11P	12V	503Ah	357Ah	296Ah	599 x 286 x 464	100.0	123.0

**Cycle Life vs. Depth of Discharge**



# AGM SERIES 2

## Rolls AGM Series 2

A dual purpose sealed maintenance free AGM battery this range offers both outstanding value and performance. The Series 2 range has all the leading design features associated with AGM technology offering the user both a lower self-discharge and an increased acceptance to charge current than conventional flooded wet batteries.

These batteries offer the perfect solution when looking to replace wet batteries or upgrade existing sealed batteries. Fitted with high grade brass and lead terminals and featuring convenient carry handles they also make use of a thick plate design and micro porous glass matt separator to deliver a high deep cycle rate and longer life.

### Features:

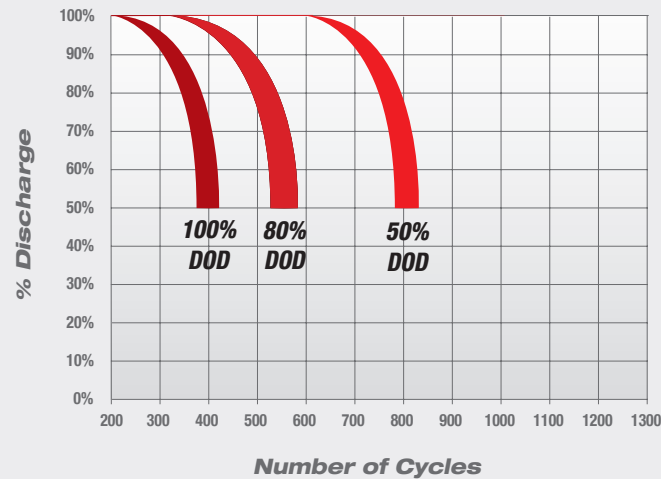
- **Cycle Performance - 800 Cycles at 50% Discharge**
- **ABS Case & Cover Design – Shock & Vibration Resistant**
- **Sealed Construction – Maintenance Free**
- **Low Internal Resistance – Faster Recharge**
- **Standard Sizes Available – Popular 12v Models**



**AGM Series - 2 Year Warranty**

Part Number	Capacity in Ah			Terminal Type	Dimensions (mm) L x W x H	Weight (Kg)	
	C100	C20	C10				
<b>AGM SERIES 2</b>							
<b>12V</b>	R12-80AGM	90	80	68	M8-TP08	260 x 169 x 237	23.0
	R12-100AGM	110	100	86	M8-TP08	307 x 169 x 237	27.0
	R12-110AGM	120	110	90	M8-TP08	328 x 172 x 240	30.0
	R12-200AGM	220	200	162	LT	530 x 209 x 214	56.0
	R12-260AGM	290	260	200	LT	522 x 268 x 240	73.0

**Cycle Life vs. Depth of Discharge**



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

# AGM SERIES 5

## Rolls AGM Series 5 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:

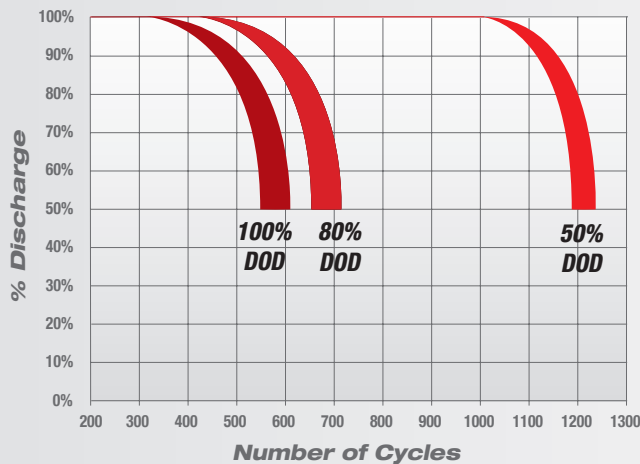
- **Sealed Construction - Maintenance Free**
- **High Density Plate - High Capacity**
- **Heavy Duty Thick Grids - True Deep Cycle Construction**
- **ABS Case and Cover - Shock and Vibration Resistant**
- **Low Internal Resistance - Faster Recharge**
- **Microporous Glass Matt Separator - Enhanced Electrolyte 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			
<b>AGM SERIES 5 - 2 VOLT</b>							
S2-1275AGM	2V	1275	1150	945	M10	295 x 178 x 411	58
<b>AGM SERIES 5 - 6 VOLT</b>							
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
<b>AGM SERIES 5 - 12 VOLT</b>							
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**



# OPzV GEL

## Rolls OPzV GEL Batteries

Rolls OPzV series is an immobilized Gel and Tubular plate technology battery to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards constructed with die-casting positive grid and a patent formula of active material. OPzV series exceeds standard values with more than 20 years floating design life at 25c and offers high cyclic use even under extreme operating conditions.

### Features:

- **Sealed Construction - Maintenance Free**
- **Tubular Plate - High Cyclic Use**
- **ABS Case and Cover - Robust Design**
- **Low Self Discharge - Less Than 2% Per Month**
- **Mounting Options - Horizontal Or Vertical**
- **All Standard Sizes Available - For All Application Requirements**

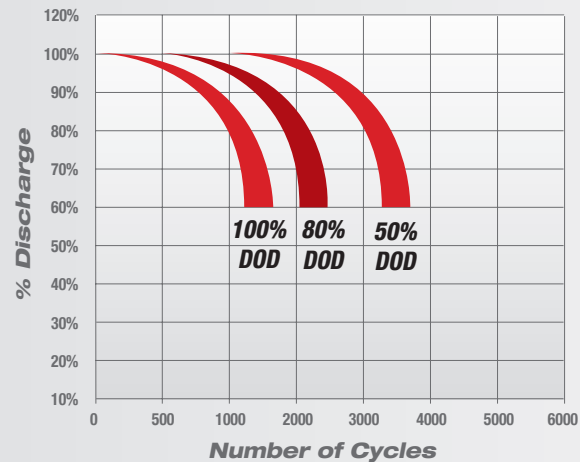


**OPzV GEL**

Part Number	Voltage	Capacity in Ah			Terminal Type	Dimensions (mm) L x W x H	Weight (Kg)
		C100	C20	C10			
<b>ROLLS OPzV VALVE REGULATED GEL BATTERY - 2 VOLT</b>							
S2-375GEL	2V	428	375	357	F10-M8	124 x 206 x 506	28.5
S2-450GEL	2V	514	450	428	F10-M8	145 x 206 x 506	33
S2-640GEL	2V	750	640	600	F10-M8	166 x 206 x 681	48
S2-1070GEL	2V	1250	1070	1000	F10-M8	233 x 210 x 681	80
S2-2140GEL	2V	2490	2140	2000	F10-M8	399 x 214 x 807	150
S2-2680GEL	2V	3130	2680	2500	F10-M8	487 x 212 x 807	190
<b>SPECIAL ORDER BATTERIES *</b>							
S2-215GEL	2V	257	215	200	F10-M8	103 x 206 x 390	17
S2-270GEL	2V	324	270	250	F10-M8	124 x 206 x 390	20.5
S2-320GEL	2V	385	320	300	F10-M8	145 x 206 x 390	20.5
S2-535GEL	2V	625	535	490	F10-M8	166 x 206 x 506	39.5
S2-825GEL	2V	965	825	770	F10-M8	235 x 210 x 506	60
S2-855GEL	2V	1000	855	800	F10-M8	191 x 210 x 681	64.5
S2-1295GEL	2V	1510	1295	1200	F10-M8	275 x 210 x 681	94
S2-1600GEL	2V	1870	1600	1500	F10-M8	275 x 210 x 831	110
S2-3220GEL	2V	3750	3220	3000	F10-M8	576 x 212 x 807	225

\* Special order batteries - minimum 16 week lead time

### Cycle Life vs. Depth of Discharge





*Rolls*

[www.rolls-battery.com](http://www.rolls-battery.com)