

## FEATURES

- AGM Deep Cycle battery – longer life
- Special grid alloy: less gassing
- Optimised manufacturing process - deep discharge
- Robust ABS material - increases the strength of the battery container

## RS PRO Lead Acid Battery 12V, 75Ah

RS Stock No.: 727-0439



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

A series of RS PRO rechargeable lead-acid batteries. These batteries are made from an ABS material which greatly increases the strength of the battery container. Suitable for use across a number of industries as well as for cyclic products. This lead acid rechargeable battery is sealed and has many uses. RS PRO offers a range of lead acid rechargeable batteries with different voltages and chargers to suit all your requirements. All models are highly reliable and offer excellent quality, performance and durability.

[727-0405](#) - 12V, 20Ah

[727-0417](#) - 12V, 13Ah

[727-0420](#) - 12V, 33Ah

[727-0423](#) - 12V, 38Ah

[727-0427](#) - 12V, 100Ah

[727-0433](#) - 12V, 120Ah

[727-0436](#) - 12V, 55Ah

[727-0439](#) - 12V, 75Ah

## General Specifications

<b>Technology</b>	AGM
<b>Designed for Cyclic Application</b>	Yes
<b>Eurobat Classification</b>	3 to 5 Years
<b>Container Material</b>	A.B.S. (UL94-HB) conform
<b>Application</b>	Cyclic products

## Electrical Specifications

<b>Capacity</b>	75Ah
<b>Nominal Voltage</b>	12V
<b>Terminal Type</b>	T6
<b>Cells Per Unit</b>	6V
<b>Voltage Per Unit</b>	12V
<b>Max. Discharge Current</b>	900A (5 sec)
<b>Max. Charging Current Limit</b>	22.5A
<b>Float charging Voltage</b>	13.5VDC to 13.8VDC/unit Average at 25°C
<b>Internal Resistance</b>	6.6mOhm
<b>Equalization and Cycle Service</b>	14.4VDC to 15.0VDC/unit Average at 25°C
<b>Self-Discharge</b>	The batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.

## Mechanical Specifications

<b>Dimensions</b>	260mm x 168mm x 208mm
<b>Height</b>	260mm
<b>Length</b>	168mm
<b>Width</b>	208mm
<b>Weight</b>	22.3kg

## Operation Environment Specifications

<b>Operating Temperature Range</b>	Discharge : -15°C to 50°C Charge : 0°C to 40°C Storage : -15°C to 40°C
<b>Nominal Operating Temperature Range</b>	25 3°C (77 5°F )

## Approvals

<b>Compliance/Certifications</b>	UL94-HB
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**Constant Current Discharge Characteristics : A (25°C)**

**Amps**

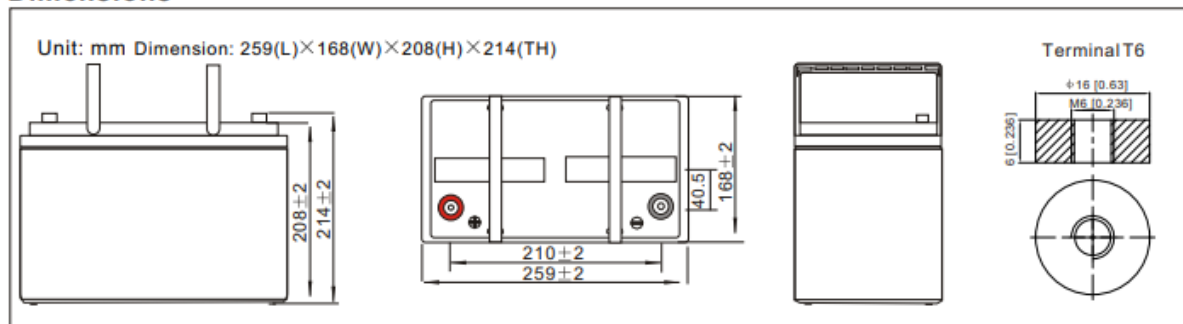
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	109.8	92.4	80.7	58.1	46.1	37.4	23.3	18.1	14.7	11.9	10.4	8.50	7.08	3.98
1.80V/cell	140.3	111.6	95.4	68.6	53.7	41.9	25.4	19.5	15.7	12.8	11.2	9.02	7.50	4.02
1.75V/cell	154.2	121.9	102.7	71.2	55.7	43.9	26.3	19.9	16.0	13.2	11.5	9.17	7.58	4.06
1.70V/cell	168.0	130.2	107.9	74.1	57.9	45.3	27.4	20.4	16.5	13.5	11.7	9.30	7.65	4.13
1.65V/cell	181.4	138.4	114.6	78.1	59.4	46.8	28.1	21.3	17.0	13.9	12.0	9.45	7.81	4.19
1.60V/cell	196.9	148.1	122.1	82.5	61.9	48.5	29.1	22.0	17.6	14.3	12.2	9.54	7.89	4.21

**Constant Power Discharge Characteristics : W (25°C)**

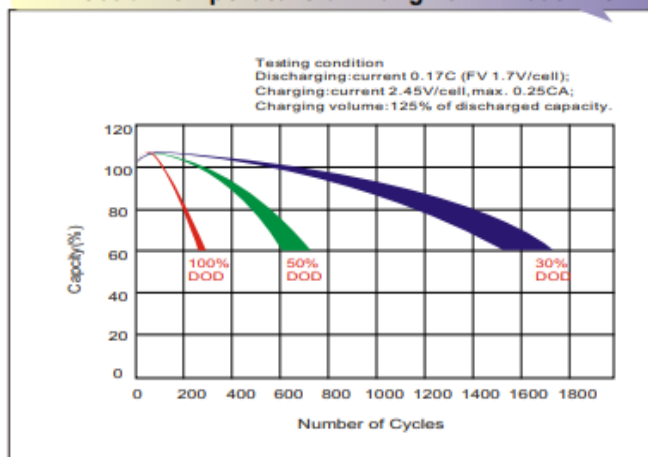
**Watts**

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	204.9	174.2	153.9	111.6	89.3	72.7	45.3	35.4	28.8	23.4	20.6	16.8	14.0	7.97
1.80V/cell	258.3	207.3	179.1	130.1	103.0	80.9	49.2	37.9	30.6	25.1	22.0	17.8	14.8	8.03
1.75V/cell	280.3	224.3	191.1	134.4	106.3	84.4	50.9	38.5	31.2	25.7	22.6	18.1	15.0	8.10
1.70V/cell	301.3	237.7	199.7	139.4	110.3	86.8	52.7	39.5	31.9	26.3	23.0	18.3	15.1	8.24
1.65V/cell	322.8	251.1	211.1	146.4	112.6	89.4	54.1	41.1	33.0	27.0	23.5	18.6	15.4	8.34
1.60V/cell	344.5	265.4	222.6	153.0	116.3	91.8	55.5	42.1	33.9	27.7	23.9	18.8	15.6	8.37

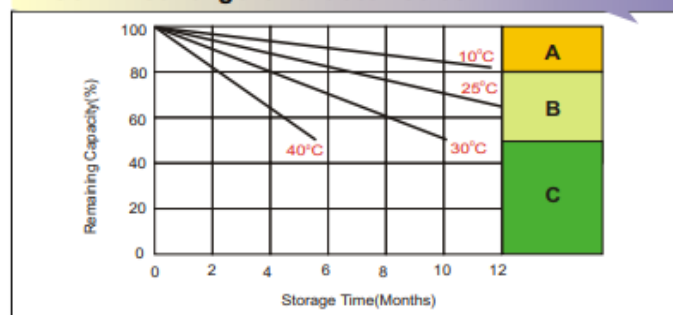
## Dimensions



## Effect of Temperature on Long Term Float Life

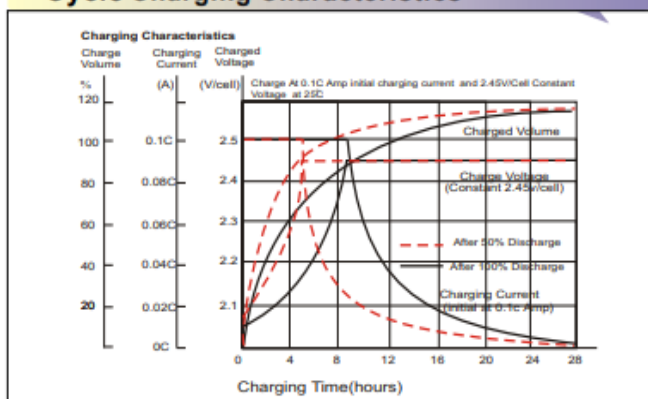


## Self Discharge Characteristics

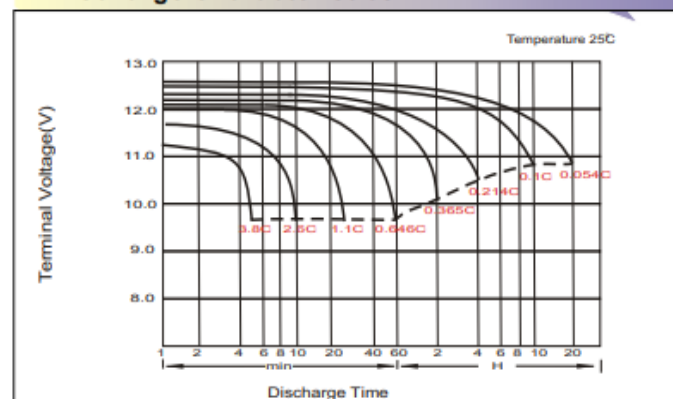


- A** No supplementary charge required  
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:  
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.  
3. Charged for 8-10 hours at limited current 0.05CA.
- C** Avoid this storage period unless regular top charge.  
Supplementary charge may often fail to recover the full capacity

## Cycle Charging Characteristics



## Discharge Characteristics



## Available Capacity Subject to Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%

**Charge the batteries at least once every six months, if they are stored at 25°C.**

## Charging Method:

Constant Voltage	-0.2Cx2h+2.4~2.45V/Cellx24h,Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx 12h
Fast	-0.2Cx2h+0.3CAx4.0h