

#### **FEATURES**

- Low gas emissions 99% plus recombination
- Excellent recovery from deep discharge
- Leak proof Sealed batteries
- ABS resin case to UL94-HB conform
- Road transport to UN2800 (Batteries, Wet, Non-Spillable)
- Air Transport to Special Provision 'A67' 'IATA' & 'ICAO'. (Batteries, Wet, Non-Spillable)

# RS PRO Lead Acid Battery - 12V, 5Ah

RS Stock No.: 686-7253



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**

RS PRO Lead acid batteries are suitable for use across a number of industries as well as for general

purpose. They are sealed and have many uses, and are ideal for standby & float applications. These batteries are long life rechargeable batteries.

#### **General Specifications**

Technology	AGM
Designed for Cyclic Application	No
Eurobat Classification	3 to 5 Years,
Container Material	A.B.S. A.B.S. (UL94-HB) conform
Application	Standby & Float applications

#### **Electrical Specifications**

Capacity	5Ah				
Nominal Voltage	12V				
Terminal Type	T1				
Cells Per Unit	6V				
Voltage Per Unit	12V				
Max. Discharge Current	75A (5 sec)				
Max. Charging Current Limit	1.5A				
Float charging Voltage	13.5VDC to 13.8VDC/unit Average at 25°C				
Internal Resistance	45mOhm				
Equalization and Cycle Service	14.4VDC to15.0VDC/unit Average at 25°C				
Self-Discharge	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**

Dimensions	90mm x 70mm x 101mm
Height	90mm
Length	70mm
Width	101mm
Weight	1.8kg

#### **Operation Environment Specifications**

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

#### **Approvals**

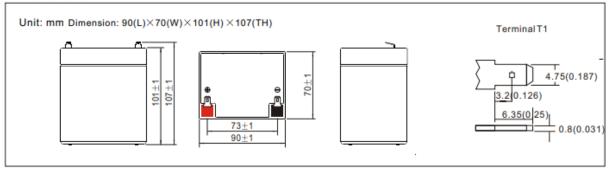
Compliance/Certifications	UL94-HB







#### **Dimensions**



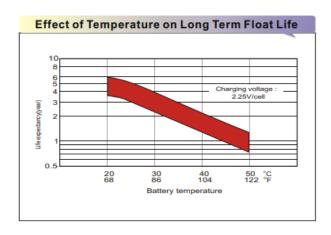


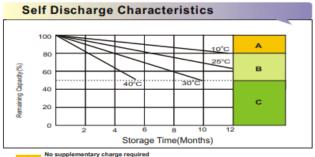
#### Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
11.1V	9.52	6.33	5.22	4.59	3.76	2.93	2.43	1.49	1.12	0.924	0.784	0.679	0.540	0.451	0.248
10.8V	11.4	7.59	6.14	5.25	4.20	3.22	2.63	1.60	1.20	0.98	0.824	0.709	0.560	0.465	0.250
10.5V	13.7	8.70	6.82	5.81	4.50	3.45	2.78	1.67	1.24	1.01	0.847	0.729	0.575	0.477	0.253
10.2V	15.9	9.72	7.52	6.29	4.80	3.61	2.90	1.73	1.27	1.03	0.866	0.745	0.584	0.484	0.257
9.9V	17.5	10.5	8.06	6.74	5.05	3.77	3.00	1.78	1.31	1.06	0.885	0.759	0.593	0.490	0.261
9.6V	19.3	11.4	8.66	7.11	5.32	3.93	3.12	1.83	1.34	1.08	0.904	0.777	0.606	0.499	0.262

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
11.1V	106.6	71.1	58.9	51.9	42.9	33.8	28.2	17.4	13.1	10.8	9.22	8.01	6.39	5.36	2.94
10.8V	123.7	83.4	68.1	58.9	47.6	36.8	30.3	18.5	14.0	11.5	9.65	8.33	6.61	5.51	2.97
10.5V	147.0	94.7	75.0	64.6	50.5	39.2	31.9	19.2	14.4	11.7	9.88	8.54	6.78	5.64	2.99
10.2V	168.2	104.3	81.9	69.4	53.6	40.8	33.1	19.8	14.7	12.0	10.1	8.71	6.87	5.73	3.04
9.9V	182.8	111.4	86.7	73.6	56.0	42.4	34.1	20.4	15.0	12.2	10.3	8.85	6.96	5.79	3.08
9.6V	197.9	118.8	91.5	76.5	58.2	43.7	35.2	20.8	15.3	12.5	10.5	9.03	7.10	5.88	3.10





No supplementary charge required
 (Carry out supplementary charge before use if 100% capacity is required.)
 Supplementary charge required before use Optional charging way as held.

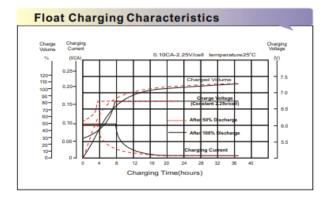
Supplementary charge required before use. Optional charging way as below:

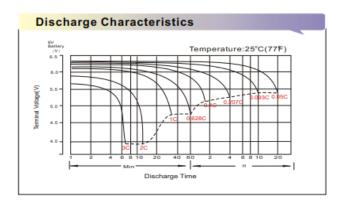
1. Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.

2. Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.

3. Charged for 8-10hours at limted current 0.95CA.

C Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.







## Capacity Factors With Different Temperature

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

## **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

## Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.80V	1.75V	1.60V
Discharge Current (A)	(A) ≤0.2C	0.2C< (A) <1.0C	(A) ≥1.0C