

FEATURES

- An excellent longlife expectancy of 6 years
- The battery can be stored for more than 6 months at 25°C
- A.B.S. UL94 -HB container
- 12V voltage per unit and capacity of 5.4 Ah (ampere-hour)

RS PRO Lead Acid Battery 12V, 5.4Ah

RS Stock No.: 174-8857



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.

Lead Acid Batteries



Product Description

These RS PRO lead-acid batteries are suitable for standby and floating load applications. These rechargeable batteries have a long service life.

General Specifications

Technology	AGM
Designed for Cyclic Application	No
Container Material	(UL94 -HB) conform
Application	Standby & float applications

Electrical Specifications

Capacity	5.4Ah
Nominal Voltage	12V
Terminal Type	T1
Cells Per Unit	6V
Voltage Per Unit	12V
Max. Discharge Current	81A (5 sec)
Max. Charging Current Limit	1.62A
Float charging Voltage	13.5VDC to 13.8VDC/unit Average at 25°C
Internal Resistance	30mOhm
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	1.7kg

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
Flame Resistant	No





Constant Current Discharge Characteristics: A (25°C)

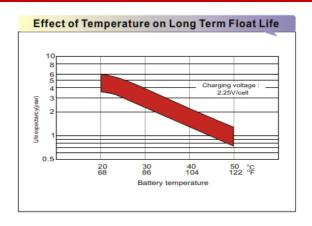
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	10.4	7.23	5.96	5.17	4.15	3.19	2.61	1.59	1.21	0.998	0.847	0.734	0.583	0.485	0.267
1.80V/cell	12.7	8.62	6.91	5.85	4.59	3.48	2.81	1.69	1.28	1.05	0.883	0.766	0.605	0.502	0.270
1.75V/cell	15.1	9.75	7.62	6.37	4.90	3.69	2.95	1.77	1.32	1.08	0.907	0.785	0.621	0.512	0.273
1.70V/cell	17.1	10.8	8.25	6.84	5.15	3.84	3.08	1.84	1.36	1.11	0.930	0.804	0.630	0.521	0.278
1.65V/cell	18.9	11.6	8.73	7.18	5.37	3.99	3.21	1.89	1.40	1.13	0.950	0.819	0.641	0.528	0.281
1.60V/cell	19.8	12.1	9.09	7.40	5.52	4.08	3.28	1.95	1.43	1.16	0.970	0.835	0.654	0.537	0.283

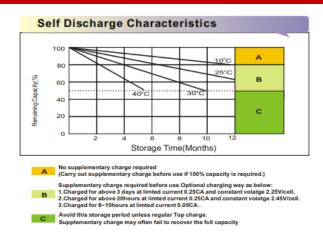
Constant Power Discharge Characteristics: W (25°C)

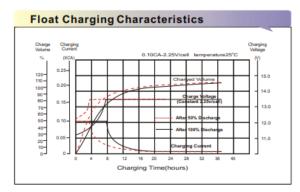
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F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	19.6	13.8	11.5	10.0	8.09	6.25	5.14	3.15	2.41	1.99	1.69	1.47	1.17	0.978	0.540
1.80V/cell	23.8	16.3	13.2	11.2	8.89	6.77	5.50	3.33	2.52	2.08	1.76	1.53	1.21	1.01	0.543
1.75V/cell	27.8	18.2	14.4	12.1	9.43	7.16	5.76	3.46	2.59	2.13	1.79	1.55	1.23	1.02	0.544
1.70V/cell	31.2	19.9	15.4	12.9	9.84	7.39	5.97	3.58	2.67	2.17	1.83	1.58	1.25	1.03	0.551
1.65V/cell	33.9	21.1	16.1	13.5	10.2	7.63	6.17	3.66	2.72	2.21	1.86	1.61	1.26	1.04	0.556
1.60V/cell	35.1	21.7	16.6	13.7	10.3	7.72	6.26	3.75	2.77	2.25	1.89	1.63	1.28	1.05	0.556

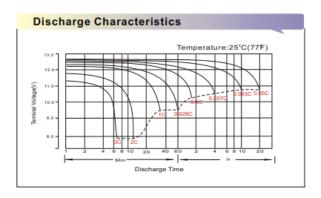












Available Capacity Subject to Temperature

Battery	Туре	-20 ℃	-10°C	0℃	5℃	10℃	20 ℃	25 ℃	30℃	40 ℃	45 ℃
AGM Battery	6V&12V	46%	66%	86%	89%	93%	98%	100%	102%	103%	105%

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

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	0.1C until the voltage reaching 14.4V,then 0.1Cx4h