

FEATURES

- Using oxygen recombination technology
- PbCaSn alloy for plate grids-less gassing, less self-discharging
- High-quality AGM separator
- High purity raw material
- Silver-coated copper terminals (T1, T2 terminal)
- ABS material

RS PRO Lead Acid Battery 6V, 3.2Ah

RS Stock No.: 727- 0385



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.

727-0382 - 6V, 7Ah
 727-0385 - 6V, 3.2Ah
 727-0388 - 6V, 1.2Ah
 727-0391 - 12V, 20Ah
 727-0394 - 12V, 35Ah
 727-0398 - 12V, 100Ah
 727-0401 - 12V, 120Ah
 727-0408 - 12V, 55Ah

General Specifications

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

Electrical Specifications

Capacity	3.2Ah
Nominal Voltage	6V
Terminal Type	T1
Cells Per Unit	6V
Voltage Per Unit	12V
Max. Discharge Current	48A (5 sec)
Max. Charging Current Limit	0.96A
Float charging Voltage	13.5VDC to 13.8VDC/unit Average at 25°C
Internal Resistance	28mOhm
Equalization and Cycle Service	14.4VDC to 15.0VDC/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	134mm x 34mm x 60mm
Height	134mm
Length	34mm
Width	60mm
Weight	670g

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
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Constant Current Discharge Characteristics : A (25°C)

Amps

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	6.14	4.28	3.53	3.06	2.46	1.89	1.55	0.944	0.719	0.591	0.502	0.435	0.345	0.287	0.158
1.80V/cell	7.55	5.11	4.10	3.47	2.72	2.06	1.66	1.00	0.756	0.622	0.524	0.454	0.358	0.298	0.160
1.75V/cell	8.95	5.78	4.52	3.77	2.91	2.19	1.75	1.05	0.783	0.641	0.538	0.465	0.368	0.303	0.162
1.70V/cell	10.2	6.37	4.89	4.05	3.05	2.27	1.82	1.09	0.809	0.657	0.551	0.476	0.374	0.308	0.164
1.65V/cell	11.2	6.85	5.17	4.25	3.18	2.36	1.90	1.12	0.829	0.670	0.563	0.485	0.380	0.313	0.167
1.60V/cell	11.8	7.14	5.39	4.39	3.27	2.41	1.94	1.16	0.849	0.687	0.575	0.495	0.388	0.318	0.168

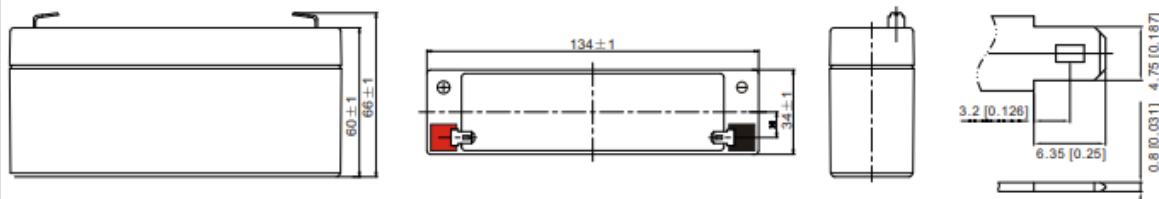
Constant Power Discharge Characteristics : W (25°C)

Watts

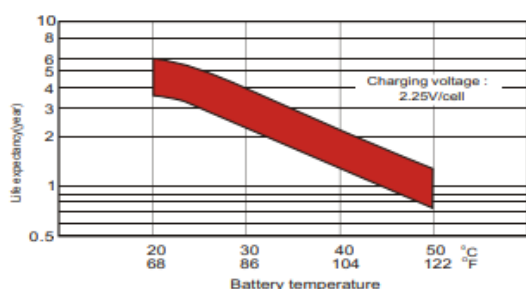
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	11.6	8.16	6.79	5.93	4.79	3.71	3.04	1.87	1.43	1.18	1.00	0.872	0.695	0.579	0.320
1.80V/cell	14.1	9.64	7.81	6.66	5.27	4.01	3.26	1.98	1.49	1.23	1.04	0.905	0.716	0.596	0.322
1.75V/cell	16.5	10.8	8.53	7.20	5.59	4.24	3.41	2.05	1.54	1.26	1.06	0.921	0.731	0.604	0.322
1.70V/cell	18.5	11.8	9.15	7.67	5.83	4.38	3.53	2.12	1.58	1.29	1.08	0.938	0.738	0.610	0.326
1.65V/cell	20.1	12.5	9.56	7.97	6.03	4.52	3.66	2.17	1.61	1.31	1.10	0.952	0.746	0.616	0.329
1.60V/cell	20.8	12.9	9.86	8.13	6.13	4.58	3.71	2.22	1.64	1.33	1.12	0.966	0.758	0.623	0.330

Dimensions

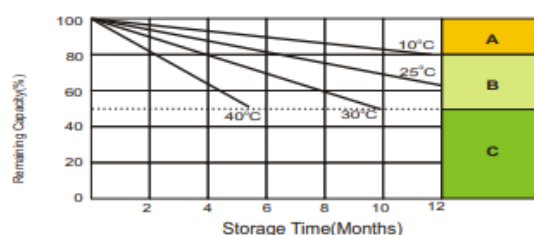
Unit: mm Dimension: 134(L)×34(W)×60(H)×66(TH)



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics

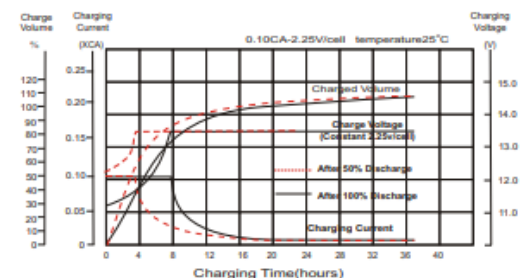


A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

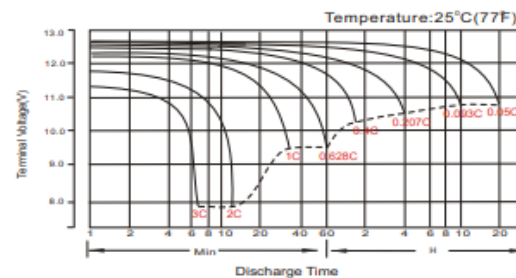
B Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
3. Charged for 8-10 hours at limited current 0.05CA.

C Avoid this storage period unless regular Top charge.
Supplementary charge may often fail to recover the full capacity

Float 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%

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 7.2V,then 0.1Cx4h