

#### **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, 7Ah

RS Stock No.: 537-5488



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
<b>Eurobat Classification</b>	3 to 5 Years
Container Material	A.B.S. (UL94-HB) conform
Application	Standby & Float applications

#### **Electrical Specifications**

Capacity	7Ah
Nominal Voltage	12V
Terminal Type	T1
Cells Per Unit	6V
Voltage Per Unit	12V
Max. Discharge Current	105A (5 sec)
Max. Charging Current Limit	2.1A
Float charging Voltage	13.5VDC to 13.8VDC/unit Average at 25°C
Internal Resistance	23Ohm
Equalization and Cycle Service	14.4VDC to15.0VDC/unit Average at 25°C



	The batteries can be stored for more than 6 months at
Self-Discharge	25°C. Self-discharge ratio less than 3% per month at
	25°C. Please charge batteries before using.

# **Mechanical Specifications**

Dimensions	151mm x 65mm x 93.5mm
Height	151mm
Length	65mm
Width	93.5mm
Weight	2.2kg

#### **Operation Environment Specifications**

Operating Temperature Range	Discharge : -15 50 C (5 122 F) 0 0 Charge : 0 40 C (32 104 F) 0 0 Storage : -15 40 C (5 104 F) /-20 $\rightarrow$ +60°C			
Nominal Operating Temperature Range	25 ±3°C (77 ±5°F )			

#### **Approvals**

Compliance/Certifications	UL94-HB





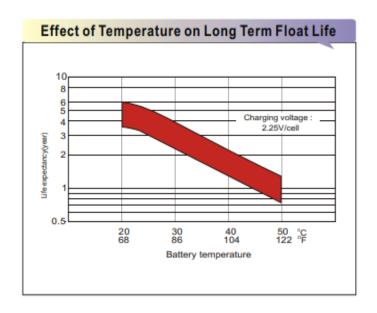


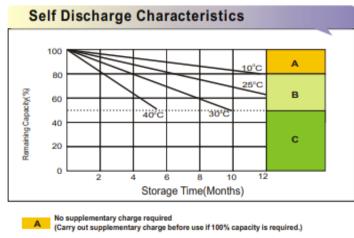
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Constant Current Discharge Characteristics : A (25 °C)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.0	11.7	9.97	8.46	6.17	4.52	3.60	2.14	1.60	1.30	1.10	0.95	0.756	0.626	0.343
1.80V/cell	19.2	13.7	11.3	9.20	6.65	4.80	3.83	2.24	1.66	1.35	1.14	0.99	0.783	0.653	0.350
1.75V/cell	21.5	14.9	12.0	9.70	6.92	4.99	3.98	2.31	1.71	1.38	1.16	1.01	0.795	0.663	0.357
1.70V/cell	23.4	15.9	12.8	10.2	7.18	5.12	4.05	2.36	1.75	1.41	1.19	1.03	0.812	0.672	0.361
1.65V/cell	25.5	16.8	13.4	10.6	7.43	5.28	4.17	2.40	1.77	1.43	1.21	1.04	0.823	0.680	0.365
1.60V/cell	26.8	17.6	13.8	10.9	7.64	5.42	4.26	2.46	1.81	1.46	1.23	1.06	0.837	0.690	0.371

Constant	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
1.85V/cell	30.3	22.3	19.2	16.4	12.0	8.86	7.09	4.23	3.17	2.59	2.20	1.91	1.52	1.26	0.694
1.80V/cell	35.9	25.8	21.5	17.7	12.9	9.37	7.52	4.42	3.30	2.69	2.27	1.97	1.57	1.31	0.704
1.75V/cell	39.8	28.0	22.8	18.6	13.4	9.72	7.79	4.55	3.37	2.74	2.31	2.00	1.59	1.33	0.716
1.70V/cell	42.8	29.5	24.0	19.3	13.8	9.89	7.88	4.61	3.42	2.78	2.34	2.03	1.61	1.33	0.718
1.65V/cell	45.7	30.7	24.8	19.8	14.1	10.1	8.02	4.65	3.45	2.80	2.36	2.05	1.62	1.34	0.720
1.60V/cell	47.0	31.5	25.1	20.1	14.3	10.3	8.13	4.73	3.50	2.83	2.39	2.07	1.63	1.35	0.728







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

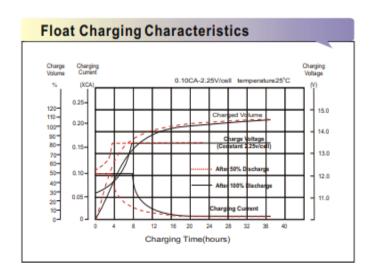
1. Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/ceil.

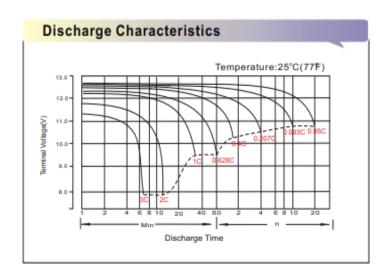
2. Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/ceil.

3. Charged for 8~10hours at limted current 0.05CA.

Avoid this storage period unless regular Top charge.

Supplementary charge may often fail to recover the full capacity





#### Available Capacity Subject to Temperature

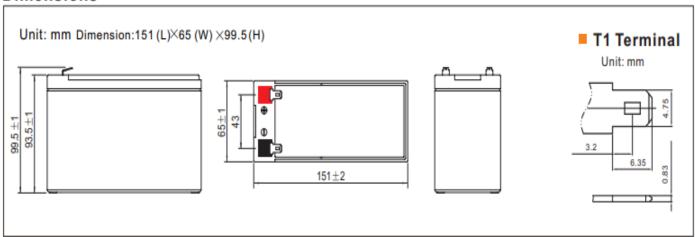
Battery	Туре	<b>-20</b> ℃	-10°C	0℃	5℃	<b>10</b> ℃	<b>20</b> ℃	<b>25</b> ℃	30℃	<b>40</b> ℃	<b>45</b> ℃
AGM Battery	6V&12V	46%	66%	86%	89%	93%	98%	100%	102%	103%	105%



# 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

# **Dimensions**



# **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