

### **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, 12Ah

RS Stock No.: 537-7305



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	12Ah
Nominal Voltage	12V
Terminal Type	T1
Cells Per Unit	6V
Voltage Per Unit	12V
Max. Discharge Current	180A (5 sec)
Max. Charging Current Limit	3.6A
Float charging Voltage	13.5VDC to 13.8VDC/unit Average at 25°C
Internal Resistance	14mOhm
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	151mm x 98mm x 95mm
Height	151mm
Length	98mm
Width	95mm
Weight	3.5kg

# **Operation Environment Specifications**

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

# **Approvals**

Compliance/Certifications	UL94-HB







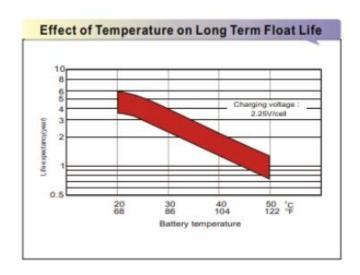


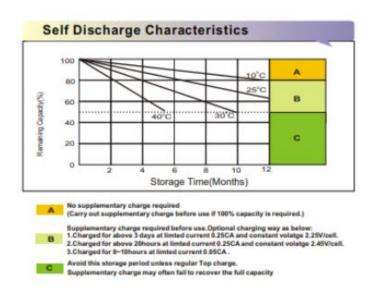


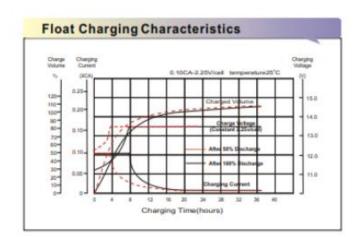
nstant (	Currer	t Discl	harge C	haraci	teristic	s: A (2	25°C)								Amp
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	22.9	17.5	14.5	12.6	9.72	7.16	6.03	3.57	2.79	2.27	1.85	1.61	1.30	1.08	0.594
1.80V/cell	30.7	22.4	17.6	14.9	11.5	8.33	6.76	3.90	3.00	2.42	1.99	1.72	1.37	1.12	0.600
1.75V/cell	34.6	24.6	19.2	16.0	11.9	8.64	7.07	4.04	3.06	2.48	2.04	1.77	1.40	1.15	0.606
1.70V/cell	38.1	26.9	20.5	16.8	12.4	8.99	7.29	4.14	3.15	2.54	2.09	1.81	1.42	1.17	0.617
1.65V/cell	42.0	29.0	21.8	17.8	13.1	9.21	7.46	4.20	3.28	2.63	2.15	1.85	1.44	1.19	0.625
1.60V/cell	46.3	31.5	23.3	19.0	13.8	9.60	7.54	4.38	3.38	2.71	2.22	1.89	1.45	1.21	0.629

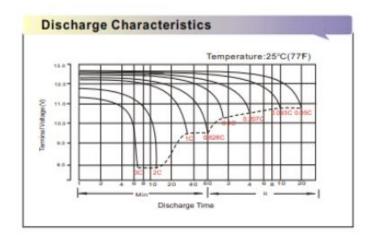
onstant Power Discharge Characteristics : W (25 °C)										Watts					
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	41.8	32.4	27.1	23.7	18.5	13.8	11.6	6.93	5.44	4.44	3.63	3.16	2.56	2.14	1.18
1.80V/cell	55.5	40.9	32.3	27.6	21.5	15.9	13.0	7.51	5.82	4.71	3.88	3.37	2.71	2.21	1.19
1.75V/cell	61.2	44.3	34.9	29.4	22.2	16.3	13.5	7.76	5.91	4.80	3.97	3.46	2.75	2.26	1.20
1.70V/cell	65.6	47.1	36.7	30.7	22.9	16.9	13.9	7.94	6.06	4.92	4.06	3,52	2.78	2.31	1.22
1.65V/cell	71.3	50.4	38.7	32.3	24.0	17.2	14.1	8.01	6.29	5.07	4.16	3.59	2.82	2.35	1.23
1.60V/cell	76.8	53.5	40.8	34.1	25.2	17.8	14.2	8.31	6.45	5.21	4.28	3.65	2.84	2.37	1.24















## Available Capacity Subject to Temperature

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

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## 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