

FEATURES

- Low gas emissions 99% plus recombination
- Excellent recovery from deep discharge
- Leak proof Sealed batteries
- ABS resin case to UL94-HB standard
- 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, 42Ah

RS Stock No.: 122-4862



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

RS PRO Lead acid batteries are suitable for use across a number of industries as well as for cyclic products. They are sealed and have many uses, and are ideal for regular charge/discharge duty. These batteries are long life rechargeable batteries.

General Specifications

Technology	AGM
Container Material	(UL94-HB) conform
Application	Cyclic products

Electrical Specifications

Capacity	42Ah
Nominal Voltage	12V
Terminal Type	T6
Cells Per Unit	6V
Voltage Per Unit	12V
Max. Discharge Current	504A (5 sec)
Max. Charging Current Limit	12.6A
Float charging Voltage	13.5VDC to 13.8VDC/unit Average at 25°C
Internal Resistance	9.1mOhm
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	197mm x 165mm x 170mm
Height	197mm
Length	165mm
Width	170mm
Weight	14.5kg

Operation Environment Specifications

Operating Temperature Range	Discharge: -20°C to 55°C Charge: 0°C to 40°C Storage: -20°C to 50°C
Nominal Operating Temperature Range	25 ±3°C (77 ±5°F)

Approvals

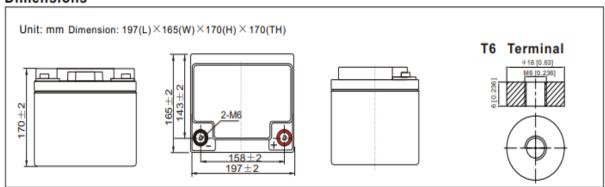
Compliance/Certifications	UL94-HB

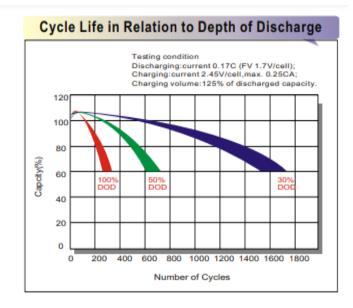
Constan	Constant Current Discharge Characteristics : A (25 °C)									Amps				
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	61.5	51.7	43.2	33.1	25.1	21.0	13.0	9.72	7.86	6.69	5.83	4.76	3.96	2.23
1.80V/cell	78.6	62.5	51.5	38.4	28.7	23.5	14.2	10.54	8.52	7.18	6.25	5.05	4.20	2.25
1.75V/cell	86.3	68.3	55.2	40.8	30.2	24.6	14.7	10.95	8.80	7.37	6.43	5.14	4.24	2.27
1.70V/cell	94.1	72.9	58.3	42.3	31.2	25.3	15.3	11.2	9.01	7.55	6.56	5.21	4.28	2.31
1.65V/cell	101.6	77.5	61.9	44.4	32.5	26.2	15.8	11.6	9.21	7.76	6.70	5.29	4.37	2.34
1.60V/cell	110.3	82.9	65.5	46.5	33.8	27.1	16.3	11.8	9.42	7.94	6.85	5.34	4.42	2.36

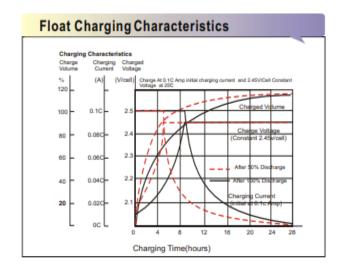
Constan	Constant Power Discharge Characteristics : W (25 °C)									١	Watts			
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	114.7	97.5	82.4	63.6	48.7	40.7	25.4	19.0	15.4	13.1	11.5	9.42	7.85	4.46
1.80V/cell	144.6	116.1	96.7	72.9	55.1	45.3	27.5	20.5	16.6	14.1	12.3	9.97	8.31	4.50
1.75V/cell	157.0	125.6	102.7	77.1	57.7	47.2	28.5	21.2	17.1	14.4	12.6	10.14	8.39	4.53
1.70V/cell	168.7	133.1	108.0	79.5	59.4	48.6	29.5	21.7	17.5	14.7	12.9	10.27	8.47	4.62
1.65V/cell	180.8	140.6	114.0	83.1	61.6	50.1	30.3	22.3	17.8	15.1	13.1	10.42	8.63	4.67
1.60V/cell	192.9	148.6	119.5	86.3	63.6	51.4	31.1	22.7	18.2	15.4	13.4	10.51	8.72	4.69

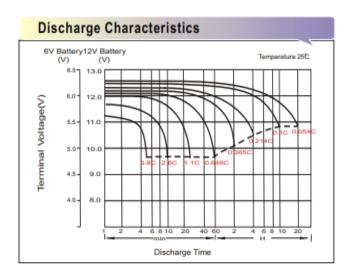


Dimensions











Available Capacity Subject to Temperature

Battery	Туре	-20°C	-10℃	0℃	5℃	10℃	20℃	25℃	30℃	40 ℃	45 ℃
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 14.4V,then 0.1Cx4h