

FEATURES

- UPS lead-acid battery
- Capacity of 24 Ah
- Voltage of 12 V
- Measures 166 mm x 175 mm x 125 mm
- T12 terminals
- Absorbed glass mat (AGM) construction ensures durability
- Weight of 7.2 kg
- Flame resistant
- EUROBAT classification of 3 to 5 years
- Operating temperature of -15°C to +50°C

RS PRO Lead Acid Battery 12V, 24Ah

RS Stock No.: 150-1559



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

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
Eurobat Classification	3 to 5 Years
Container Material	ABS
Application	Standby & float applications

Electrical Specifications

Capacity	24Ah
Nominal Voltage	12V
Terminal Type	T12
Cells Per Unit	6
Voltage Per Unit	12V
Max. Discharge Current	360A (5 sec)
Max. Charging Current Limit	7.2A
Float charging Voltage	13.5to 13.8VDC/unit Average at 25 °C
Internal Resistance	Approx. 14mohm
Equalization and Cycle Service	14.4VDC to15.0VDC/unit Average at 25°C
Self-Discharge	Self-discharge ratio less than 3% per month.

Mechanical Specifications

Dimensions	166mm x 175mm x 125mm
Height	175mm
Length	125mm
Width	166mm
Weight	7.2kg

Operation Environment Specifications

Operating Temperature Range	-15°C to +50°C
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Approvals

Compliance/Certifications	UL94-V0
Flame Resistant	Yes

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	45.7	35.1	29.1	25.1	19.4	14.32	12.07	7.14	5.58	4.54	3.70	3.21	2.59	2.16	1.19
1.80V/cell	61.3	44.8	35.1	29.7	22.9	16.7	13.52	7.79	6.01	4.85	3.97	3.45	2.75	2.23	1.20
1.75V/cell	69.2	49.3	38.4	32.0	23.8	17.3	14.14	8.08	6.12	4.96	4.08	3.54	2.80	2.29	1.21
1.70V/cell	76.2	53.7	41.0	33.6	24.8	18.0	14.59	8.28	6.29	5.09	4.18	3.61	2.84	2.34	1.23
1.65V/cell	84.0	58.0	43.6	35.7	26.1	18.4	14.93	8.40	6.56	5.26	4.30	3.69	2.88	2.39	1.25
1.60V/cell	92.6	62.9	46.6	38.0	27.6	19.2	15.07	8.76	6.76	5.43	4.44	3.77	2.91	2.41	1.26

Constant Power Discharge Characteristics : W (25 °C)

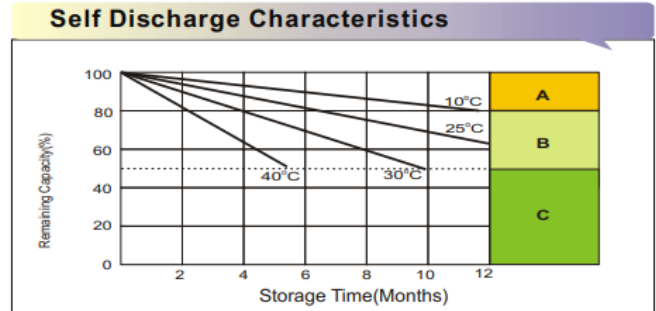
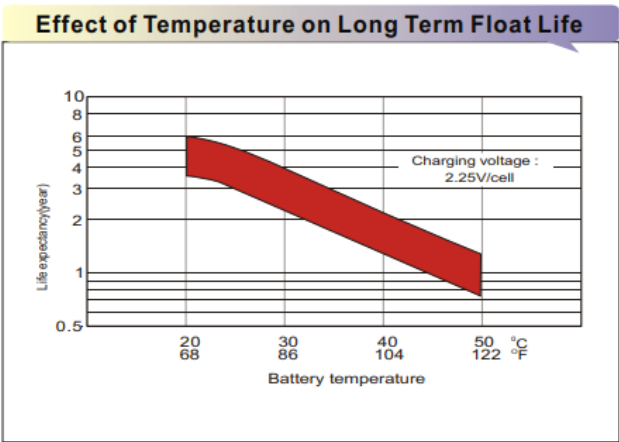
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	83.6	64.8	54.3	47.4	37.0	27.5	23.3	13.9	10.9	8.88	7.26	6.32	5.12	4.28	2.35
1.80V/cell	111.0	81.9	64.7	55.2	43.0	31.8	25.9	15.0	11.6	9.43	7.76	6.75	5.41	4.41	2.37
1.75V/cell	122.5	88.5	69.8	58.8	44.3	32.6	27.0	15.5	11.8	9.60	7.93	6.91	5.49	4.52	2.39
1.70V/cell	131.1	94.3	73.4	61.3	45.9	33.8	27.8	15.9	12.1	9.84	8.12	7.04	5.56	4.61	2.44
1.65V/cell	142.5	100.8	77.5	64.7	48.0	34.4	28.2	16.0	12.6	10.1	8.32	7.18	5.64	4.70	2.47
1.60V/cell	153.6	107.0	81.5	68.1	50.3	35.6	28.3	16.6	12.9	10.4	8.56	7.31	5.68	4.74	2.48



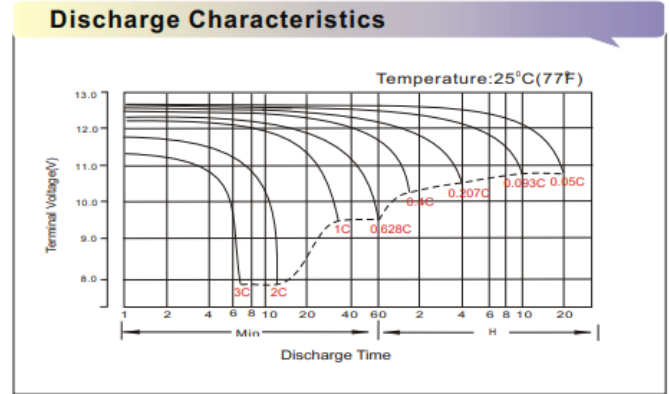
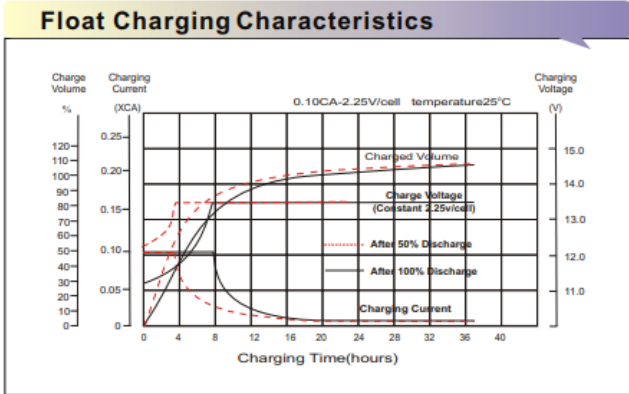
Dimensions

Unit: mm Dimension: 166(L)×175(W)×125(H)

Terminal T12
Unit: mm
Ø12
M5



- 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 0.05CA 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



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 14.4V, then 0.1Cx4h

Maintenance & Cautions

Float Service:
◆ It is recommended to check battery/Float voltage each month.
Equalisation charge:
◆ Equalisation charging is recommended once every 3 to 6 months using.
◆ Discharge 100% rated capacity.
◆ Charge 2.35v/cell constant voltage, maximum 0.3CA 24hrs.