

## **FEATURES**

- Nominal voltage of 12 V
- Capacity of 25.8 Ah
- Measures 164 (L) x
  125 (W) x 172 (D) mm
- Weight of 7.9 kg
- T12 terminal
- Flammability UL94
  V-0
- AGM construction so leak- and spill-proof
- Designed for UPS products (high discharge rate applications)
- Eurobat classification so will last up to 12 Years
- Operational temperature of -20°C to +55°C
- Installation temperature of 0°C to +50°C

# RS PRO Lead Acid Battery - 12V, 25.8Ah

RS Stock No.: 174-8863



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**

Back-up power is essential to provide electricity for high-rate applications such as emergency lighting, renewable energy. The RS PRO 12 V sealed, lead-acid batteries have a capacity of 25.8 Ah so they'll meet your critical power requirements. They have an absorbent glass mat (AGM) so they're spill-proof.

## **General Specifications**

Technology	AGM
Designed for Cyclic Application	No
Designed High Rate Application	Yes
Eurobat Classification	10 to 12 Years
Container Material	ABS
Application	High Discharge Rate Applications

## **Electrical Specifications**

Capacity	25.8Ah
Nominal Voltage	12V
Terminal Type	T12
Cells Per Unit	6
Voltage Per Unit	12V
Max. Discharge Current	540A (5 sec)
Max. Charging Current Limit	8.1 A
Float charging Voltage	13.5to 13.8VDC/unit Average at 25 °C
Internal Resistance	Approx. 12mohm
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	164mm x 175mm x 125mm
Height	175mm
Length	125mm
Width	164mm
Weight	7.9kg

## **Operation Environment Specifications**

Operating Temperature Range	Discharge: -15°C to 50°C (5°F to 122 °F) Charge: 0°C to 40°C (32°F to 104 °F) Storage: -15°C to 40°C (5°F to 104 °F)
Nominal Operating Temperature Range	25°C ± 3°C

# **Approvals**

Compliance/Certifications	UL94-V0
Flame Resistant	Yes

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	121.5	93.3	76.8	65.3	51.0	38.9	31.7	18.9	13.9	11.0	9.18	7.91	6.26	5.22	2.74
1.80V/cell	137.1	102.2	82.2	68.4	53.6	40.8	33.4	19.8	14.3	11.3	9.45	8.13	6.42	5.33	2.77
1.75V/cell	154.5	108.1	86.6	72.3	55.3	41.7	34.1	20.2	14.6	11.5	9.55	8.23	6.52	5.42	2.82
1.70V/cell	167.8	114.3	89.2	74.2	56.6	42.6	34.8	20.5	14.8	11.7	9.72	8.39	6.61	5.47	2.85
1.67V/cell	177.1	118.7	92.8	76.3	57.9	43.4	35.5	20.8	15.0	11.8	9.89	8.53	6.70	5.54	2.89
1.60V/cell	181.9	121.3	94.8	78.2	59.3	44.0	35.9	21.0	15.2	12.0	10.0	8.62	6.77	5.61	2.94

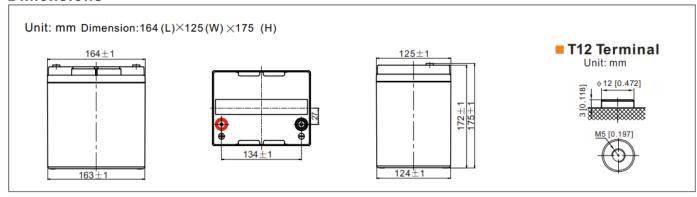
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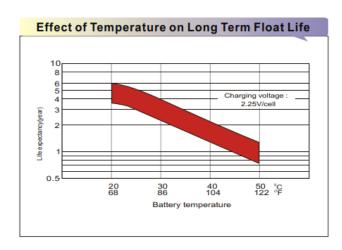
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F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	62.5	47.7	39.0	33.0	25.7	19.5	15.8	9.40	6.86	5.44	4.51	3.88	3.05	2.54	1.32
1.80V/cell	71.2	52.8	42.2	34.9	27.2	20.6	16.8	9.88	7.12	5.61	4.67	4.01	3.15	2.61	1.35
1.75V/cell	81.1	56.4	44.8	37.3	28.3	21.3	17.3	10.2	7.32	5.74	4.75	4.08	3.22	2.66	1.38
1.70V/cell	89.1	60.3	46.8	38.6	29.2	21.9	17.7	10.4	7.47	5.88	4.87	4.19	3.29	2.71	1.40
1.67V/cell	94.8	63.0	48.9	40.1	30.1	22.5	18.2	10.6	7.62	5.98	4.98	4.28	3.34	2.75	1.43
1.60V/cell	98.5	65.1	50.5	41.5	31.1	23.0	18.6	10.8	7.76	6.12	5.10	4.37	3.41	2.81	1.47

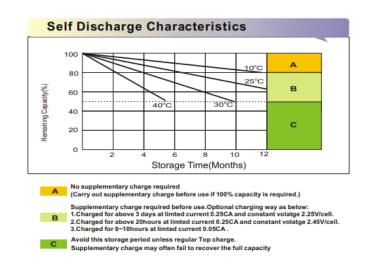
## **Lead Acid Batteries**

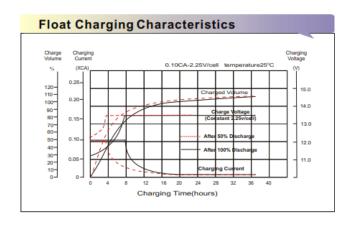


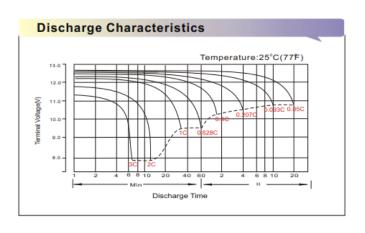
#### **Dimensions**











## Available Capacity Subject to Temperature

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

# **Lead Acid Batteries**



## 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  $25\,^{\circ}$ C.

## **Charging Method:**

	-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

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♦ 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.