

## 特点

- 额定电压为 12 V
- 容量 25.8 Ah
- 尺寸 164 (长) x 125 (宽) x 172 (深) mm
- 重量 7.9 kg
- T12 Terminal
- 阻燃
- AGM 结构可防止泄漏和泄漏
- 设计用于循环高速率应用，如应急照明
- 欧洲蝙蝠分类最长可达 12 年
- 工作温度 -20°C 至 +55°C
- 安装温度为 0°C 至 +50°C

## RS PRO 铅酸电池 12V , 27Ah

RS 库存号: 174-8863



RS 认证产品为您提供所有产品类别的专业品质部件。我们的产品系列经过工程师测试、提供与杰出品牌相当的质量、而无需支付高昂的价格。

产品说明

备用电源对于高速率应用 (如应急照明, 可再生能源) 供电至关重要。RS PRO 12 V 密封铅酸电池的容量为 25.8 Ah, 因此它们可满足您的关键电源要求。它们具有吸液玻璃垫 (AGM), 因此可防溢出。

一般规格

技术	AGM
设计用于循环应用	是的
设计高速率应用	是的
eurobat 分类	10 至 12 年
容器材料	ABS
应用	高放电率应用

电气规格

容量	27Ah
额定电压	12V
Terminal	T12
每个单元的单元格数	6
单位电压	12V
最大放电电流	540A (5 秒)
最大充电电流限制	8.1 A
浮动充电电压	25 时为 13.5VDC 至 13.8VDC / 单位平均值 °c
内部电阻	大约 12mohm
均衡和循环服务	14.4vdc 至 15.0vdd/ 单元平均为 25 °c.
自放电	每月自放电率低于 3% 。

机械规格

尺寸	164mm x 175mm x 125mm
高度	175mm
长度	125mm
宽度	164mm
重量	7.9kg

操作环境规格

工作温度范围:	放电: $-15^{\circ}\text{C}$ 至 $50^{\circ}\text{C}$ ( $5^{\circ}\text{F}$ 至 $122^{\circ}\text{F}$ ) 费用: $0^{\circ}\text{C}$ 至 $40^{\circ}\text{C}$ ( $32^{\circ}\text{F}$ 至 $104^{\circ}\text{F}$ ) 存储: $-15^{\circ}\text{C}$ 至 $40^{\circ}\text{C}$ ( $5^{\circ}\text{F}$ 至 $104^{\circ}\text{F}$ )
额定工作温度范围	$25.0^{\circ}\text{C} \pm 3.0^{\circ}\text{C}$

认证

合规性 / 认证	UL94-V0
阻燃	是的

Constant Current Discharge Characteristics : A ( $25^{\circ}\text{C}$ )

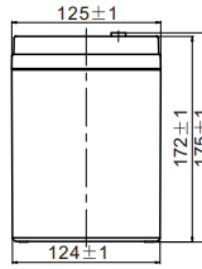
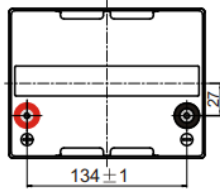
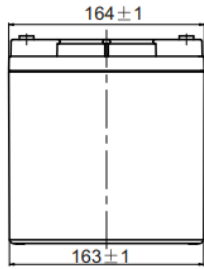
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	121.5	93.3	76.8	65.3	51.0	38.9	31.7	18.9	13.9	11.0	9.18	7.91	6.26	5.22	2.74
1.80V/cell	137.1	102.2	82.2	68.4	53.6	40.8	33.4	19.8	14.3	11.3	9.45	8.13	6.42	5.33	2.77
1.75V/cell	154.5	108.1	86.6	72.3	55.3	41.7	34.1	20.2	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

Constant Power Discharge Characteristics : W ( $25^{\circ}\text{C}$ )

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

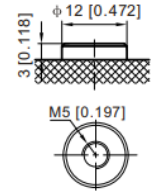
### Dimensions

Unit: mm Dimension: 164 (L) × 125 (W) × 175 (H)

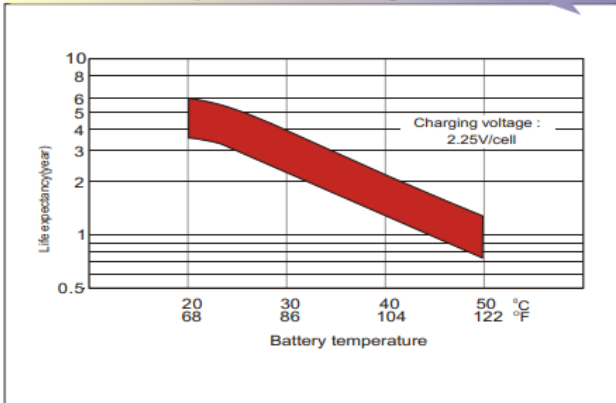


#### T12 Terminal

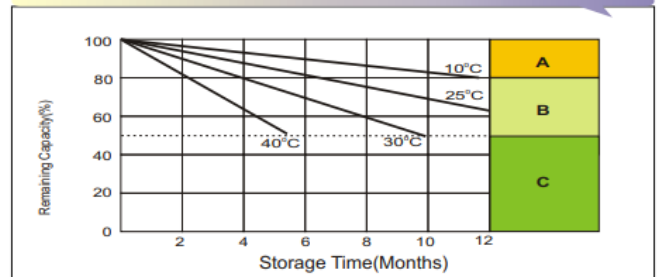
Unit: mm



### Effect of Temperature on Long Term Float Life

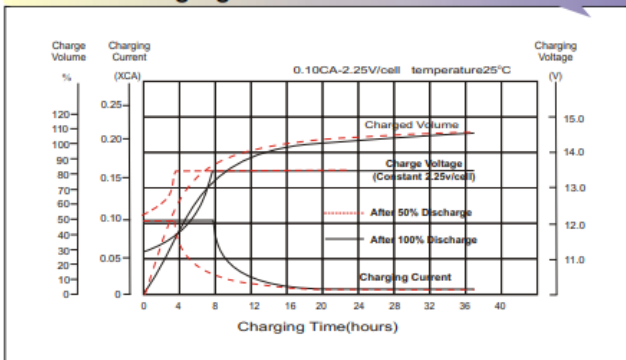


### Self Discharge Characteristics

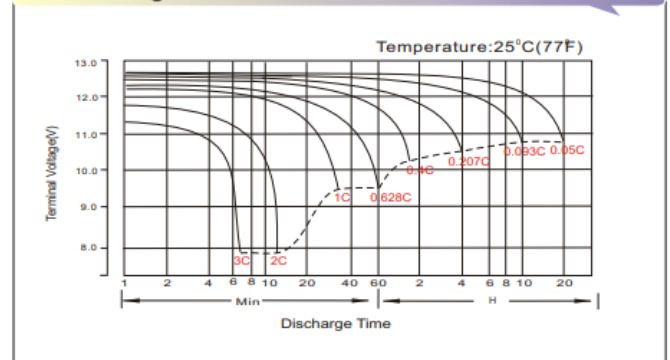


- A** No supplementary charge required  
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:  
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
2. Charged for above 20 hours at limited current 0.25CA 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

### Float Charging Characteristics



### Discharge Characteristics



### 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) $\leq 0.2C$	$0.2C < (A) < 1.0C$	(A) $\geq 1.0C$

**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

<b>Float Service:</b>
◆ It is recommended to check battery/Float voltage each month.
<b>Equalisation charge:</b>
◆ 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.
<b>Cyclic Service:</b>
◆ Temperature compensation for varying temperatures:
- Charge voltage -3mV/Cell/degC from 25degC norm.
◆ The service life of your battery will be affected by:
- The number of discharge cycles, depth of discharge, ambient temperature and charging voltage.