

# Sealed Lead Acid (SLA) Batteries

## 12V 126AH - M8/F17 Terminal

### Model: S 4579

 **Powerhouse**  
BATTERIES



This 12V 126Ah sealed lead acid (SLA) battery is a compact battery for powering 12V equipment. It is commonly used in battery back up systems, alarm and communications systems and UPS units. Fitted with M8 bolt and nut terminals, these batteries are easily user replaced in most equipment they are used in. Cells are fully sealed to prevent any leakage of electrolyte.

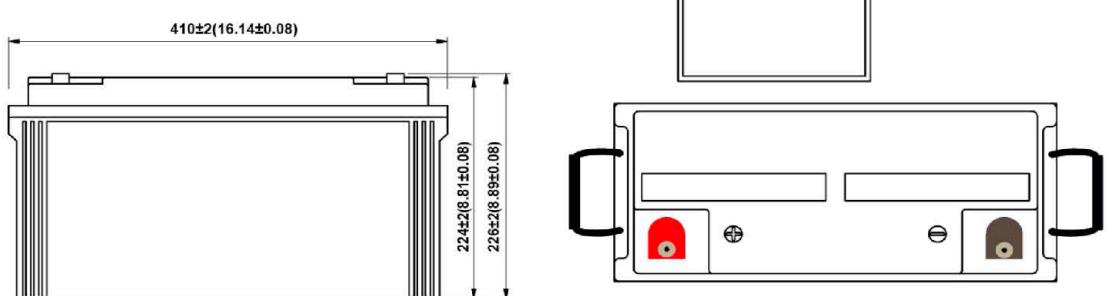
Our range of Powerhouse SLA batteries are from a quality supplier and are graded for use in UPS systems. We have found the quality of SLA batteries varies considerably between suppliers and often cheaper units have a shorter life span.

**ActivFire Listed (afp3824). Conforms to IEC 60896-21:2004 and IEC 60896-22:2004.**

<b>Cell per unit</b>	6	<b>Ambient temperature</b>	
<b>Nominal Voltage (V)</b>	12	Charge 0°C (32°F) to 40°C (104°F)	
<b>Nominal Capacity (Ah)</b>	125Ah @ 20hour rate F.V(1.75/Cell)	Discharge -15°C(5°F) to 50°C (122°F)	
<b>Weight</b>	Approx 38kg	Storage -15°C(5°F) to 40°C (104°F)	
<b>Internal Resistance (1KHz)</b>	5mΩ	<b>Max charge Current</b>	
<b>Max Discharge Current (5s)</b>	1300A (5s)	<b>Cycle use :</b> Max charge current : 40A	
<b>Battery Life :</b>	Stand by : 3~5 years	Charge voltage: 14.4V to 15.0V	
<b>Terminal Type</b>	M8/F17	<b>Stand by :</b> Charge voltage: 13.5V to 13.8V	
<b>Container Material</b>	ABS(Option : 94-HB & 94V-0 flame retardant case)		



<b>DIMENSIONS</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>	<b>Total Height</b>
Unit: mm	410±2	176±2	224±2	226±2
Unit: inch	16.14±0.08	6.92±0.08	8.82±0.08	8.82±0.08



Constant current discharge characteristics Unit:A/Cell(25°C 77°F)										
F.V/Time	10MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	294.8	224.4	131.6	74.7	46.0	35.2	23.0	15.2	12.85	6.67
1.67V	271.3	209.1	124.4	72.1	44.5	34.2	22.2	14.99	12.75	6.63
1.70V	251.9	196.9	118.3	69.8	43.2	32.6	21.6	14.79	12.44	6.55
1.75V	230.5	184.6	113.2	67.6	41.6	31.8	21.0	14.59	12.34	6.43
1.80V	210.1	169.3	109.1	64.7	40.1	31.3	20.5	14.38	12.24	6.36

Constant power discharge characteristics Unit:W/cell(25°C 77°F)										
F.V/Time	10MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	501.8	392.7	240.7	139.74	87.21	67.22	44.27	29.68	25.30	13.26
1.67V	472.3	373.3	229.5	135.66	84.76	65.48	42.94	29.38	25.09	13.06
1.70V	441.7	352.9	219.3	132.60	82.93	63.14	41.92	29.07	24.58	12.95
1.75V	415.1	335.6	212.2	128.52	79.97	61.51	41.00	28.66	24.17	12.75
1.80V	383.5	311.1	206.0	123.42	77.42	60.59	39.98	28.25	24.07	12.65

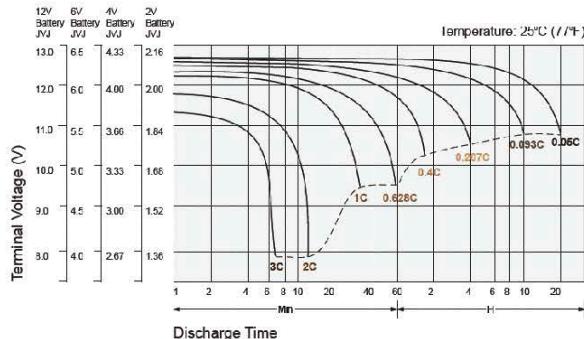
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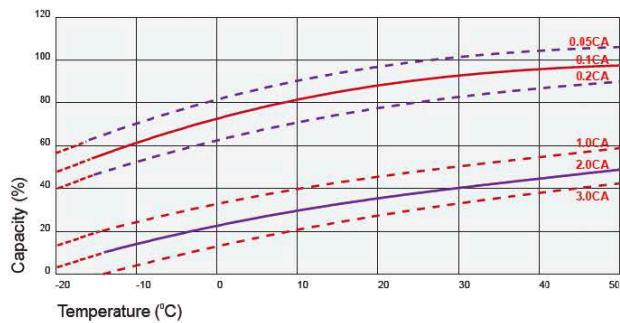
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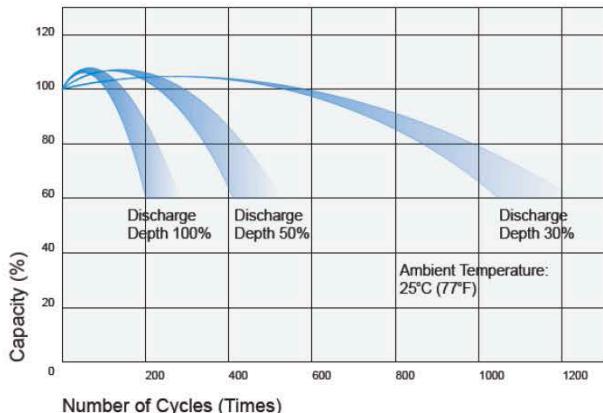
#### Battery Discharge Characteristics (25°C/77°F)



#### Temperature Effects in Relation to Battery Capacity



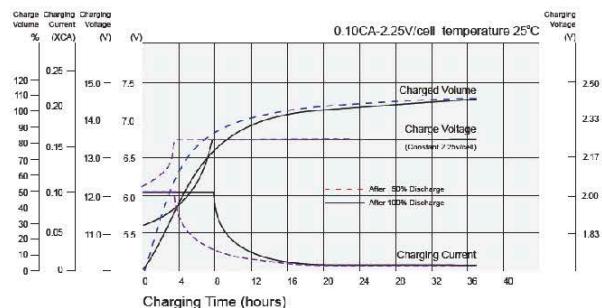
#### Cycle Service Life



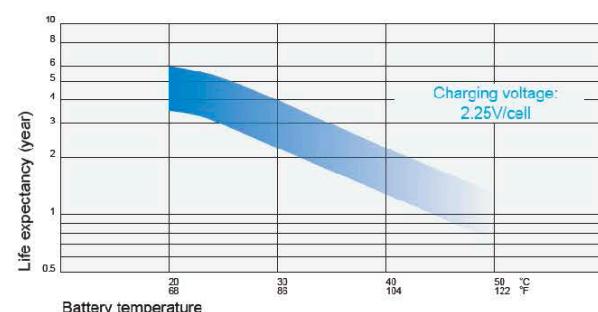
#### Charging Procedures

Application	Charge Voltage(V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.25C
Standby	25°C(77°F)	2.275	2.25~2.30	

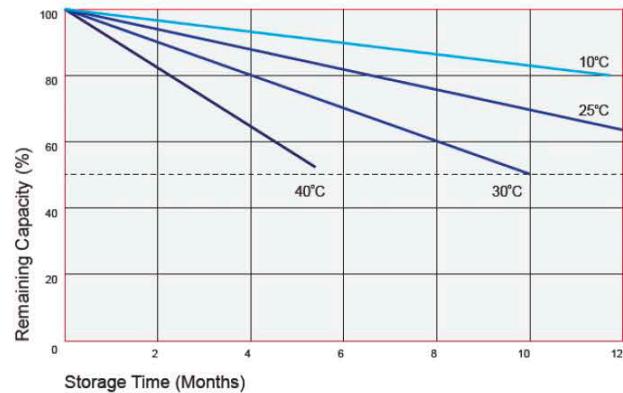
#### Battery Charge Characteristic for standby use



#### Temperature Effects on Long Term Float Life



#### Self Discharge Characteristics



#### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.70	1.65	1.60
Discharge Current (A)	0.2C>(A)	0.2C<(A)	0.5C<(A)	(A)>1.0C