

# Sealed Lead Acid (SLA) Batteries

## 12V 1.3AH - 4.8mm/F1 Terminal

### Model: S 4517



This 12V 1.3Ah 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 4.8mm spade connection tabs, these batteries are easily user replaced in most equipment they are used in. Cells are fully sealed to prevent any leakage of electrolyte..

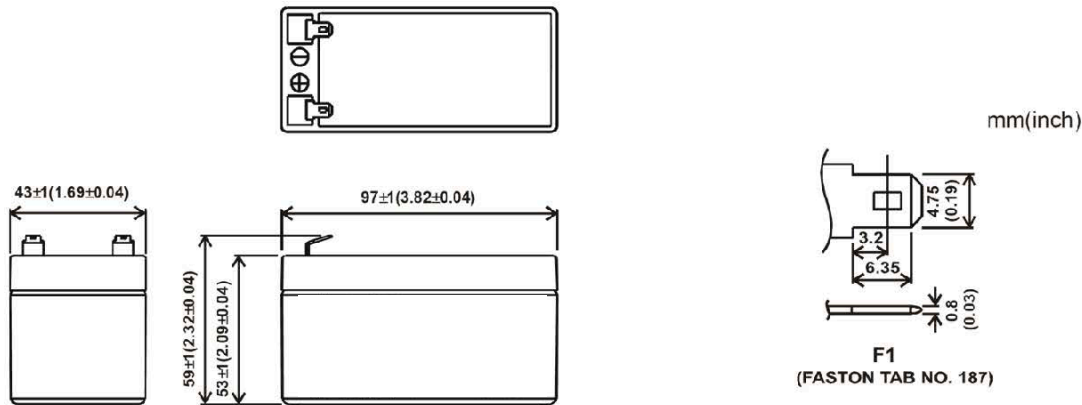
Our range of Powerhouse SLA batteries are from a quality supplier and are graded for use in UPS systems. We have found the quality of SLA batteries varies considerably between suppliers and often cheaper units have a shorter life span.

**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>	1.3Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15°C(5°F) to 50°C (122°F)
<b>Weight</b>	Approx.0.56 kg	Storage	-15°C(5°F) to 40°C (104°F)
<b>Internal Resistance (1KHz)</b>	90mΩ	<b>Max charge Current</b>	
<b>Max Discharge Current (5s)</b>	19.5A (5s)	<b>Cycle use :</b>	Max charge current : 0.39A
<b>Battery Life :</b>	Stand by : 3~5 years		Charge voltage: 14.4 to 15.0V
<b>Terminal Type</b>	F1	<b>Stand by :</b>	Charge voltage: 13.50 to 13.80V
<b>Container Material</b>	ABS(Option : 94-HB & 94V-0 flame retardant case)		



DIMENSIONS	Length	Width	Height	Total Height
Unit: mm	97±1	43±1	53±1	59±1
Unit: inch	3.82±0.04	1.69±0.04	2.90±0.04	2.32±0.04



Constant current discharge characteristics Unit:A(25°C 77°F)										
F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	4.41	2.39	1.45	0.72	0.45	0.35	0.24	0.15	0.119	0.0070
1.67V	4.20	2.28	1.40	0.71	0.44	0.34	0.23	0.14	0.117	0.0070
1.70V	3.81	2.25	1.27	0.68	0.42	0.33	0.23	0.14	0.116	0.0065
1.75V	3.36	2.17	1.22	0.66	0.40	0.30	0.22	0.13	0.114	0.0065
1.80V	2.83	1.97	1.14	0.62	0.40	0.28	0.21	0.11	0.112	0.0065
Constant power discharge characteristics Unit:W(25°C 77°F)										
F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	53.30	28.12	17.01	9.50	5.11	3.80	2.57	1.55	1.48	0.86
1.67V	51.87	27.36	16.82	9.41	5.07	3.80	2.57	1.53	1.43	0.80
1.70V	50.35	26.60	16.63	9.31	5.00	3.71	2.57	1.53	1.43	0.80
1.75V	48.17	25.94	16.25	9.12	4.90	3.65	2.51	1.51	1.43	0.80
1.80V	45.89	24.42	15.49	8.84	4.75	3.53	2.45	1.46	1.37	0.74

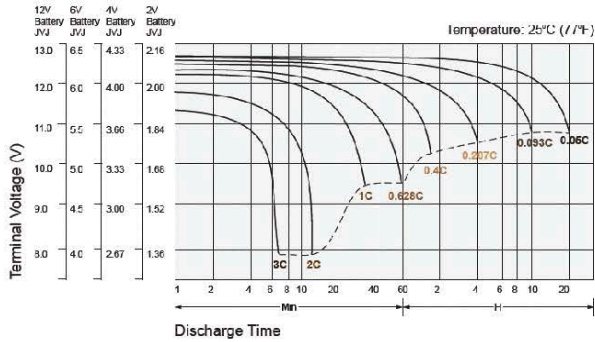
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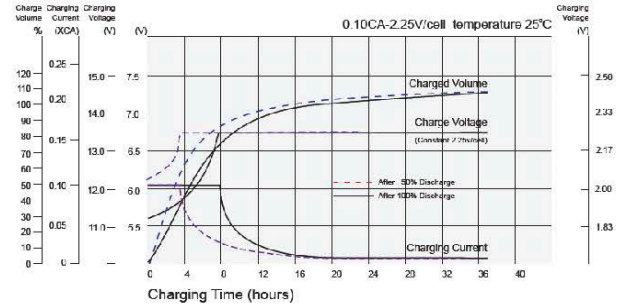
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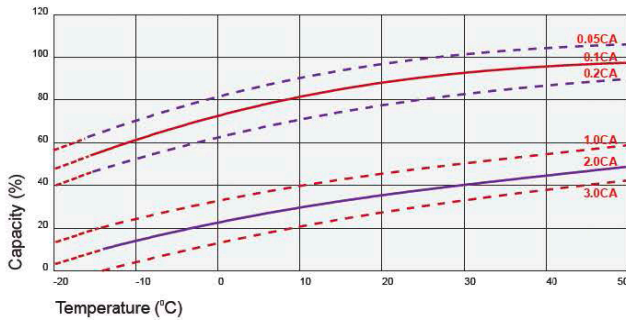
#### Battery Discharge Characteristics (25°C/77°F)



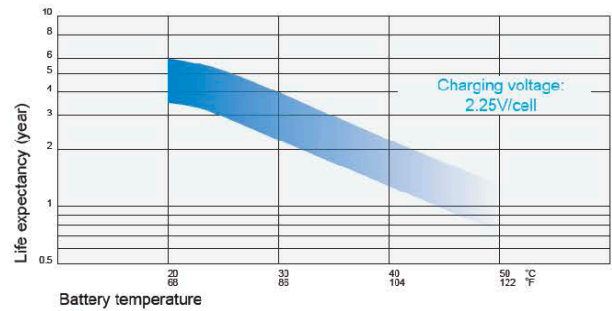
#### Battery Charge Characteristic for standby use



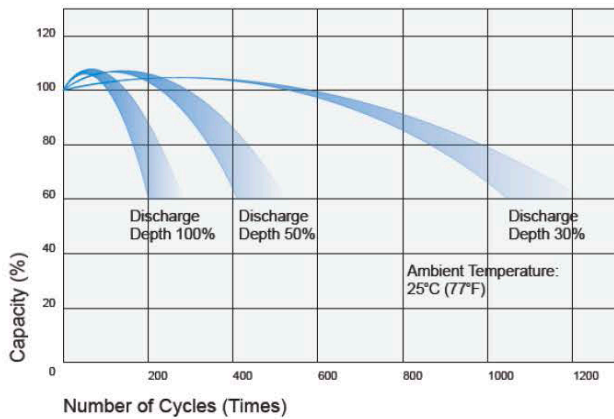
#### Temperature Effects in Relation to Battery Capacity



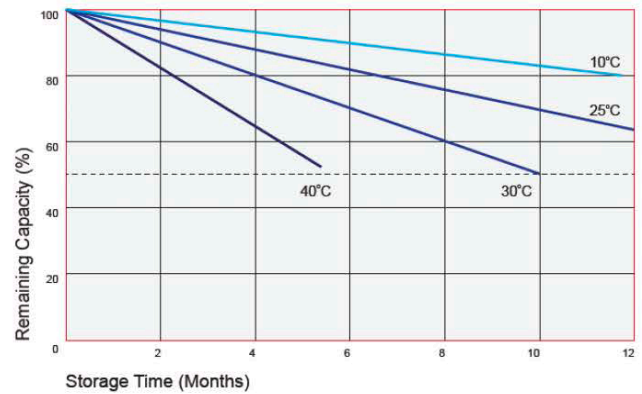
#### Temperature Effects on Long Term Float Life



#### Cycle Service Life



#### Self Discharge Characteristics



#### 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	

#### 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	0.5C < (A) < 1.0C	(A) > 1.0C