

Sealed Lead Acid (SLA) Batteries

6V 4.5AH - 4.8mm/F1 Terminal

Model: S 4491



This 6V 4.5Ah sealed lead acid (SLA) battery is a compact battery for powering 6V 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.

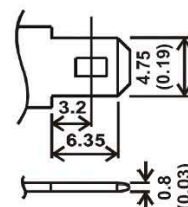
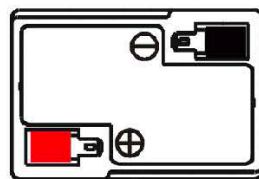
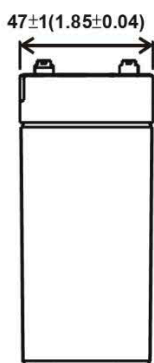
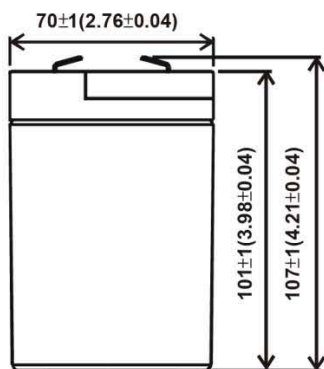
Our range of Powerhouse SLA batteries are from a quality supplier and are graded for use in UPS systems. We have found the quality of SLA batteries varies considerably between suppliers and often cheaper units have a shorter life span.

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

Cell per unit	3	Ambient temperature	
Nominal Voltage (V)	6	Charge	0°C(30°F) to 40°C (104°F)
Nominal Capacity (Ah)	4.5Ah@ 20hour rate F.V(1.75/cell)	Discharge	-15°C(-4°F) to 50°C (122°F)
Weight	Approx 0.75kg	Storage	-15°C(-4°F) to 40°C (104°F)
Internal Resistance (1KHz)	45mΩ	Max charge Current	
Max Discharge Current (5s)	60A	Max charge current :	0.8A
Battery Life :	Stand by : 3~5 years	Cycle use :	Charge voltage: 7.2 to 7.5V
Terminal Type	F1	Stand by :	Charge voltage: 6.75 to 6.90V
Container Material	ABS(Option : 94-HB & 94V-0 flame retardant case)		



DIMENSIONS	Length	Width	Height	Total Height
Unit: mm	70±1	47±1	101±1	107±1
Unit: inch	2.76±0.04	1.85±0.04	3.98±0.04	4.21±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	16.00	7.40	4.60	2.70	1.63	1.19	0.800	0.540	0.450	0.236
1.67V	15.00	7.30	4.47	2.65	1.58	1.17	0.790	0.530	0.450	0.234
1.70V	14.00	7.12	4.29	2.52	1.53	1.14	0.770	0.520	0.440	0.231
1.75V	12.60	6.35	4.09	2.45	1.47	1.11	0.750	0.510	0.430	0.227
1.80V	10.50	5.80	3.83	2.34	1.41	1.10	0.730	0.540	0.420	0.225
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	96.0	51.2	29.0	16.4	9.30	6.38	4.33	3.21	2.41	1.35
1.67V	90.0	49.4	28.7	16.2	9.10	6.35	4.32	3.10	2.41	1.32
1.70V	84.0	48.2	28.3	16.0	8.80	6.30	4.31	2.90	2.41	1.30
1.75V	78.0	46.9	27.7	15.7	8.60	6.24	4.28	2.80	2.39	1.29
1.80V	72.3	44.8	26.6	15.3	8.40	6.12	4.22	2.72	2.36	1.29

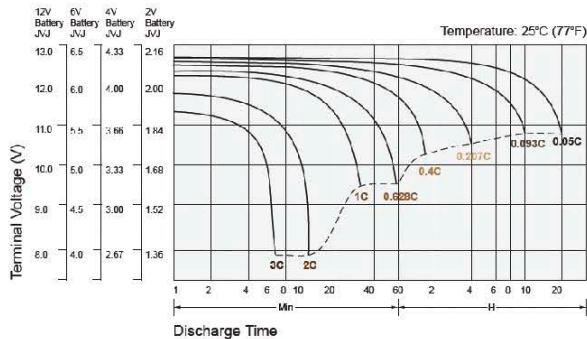
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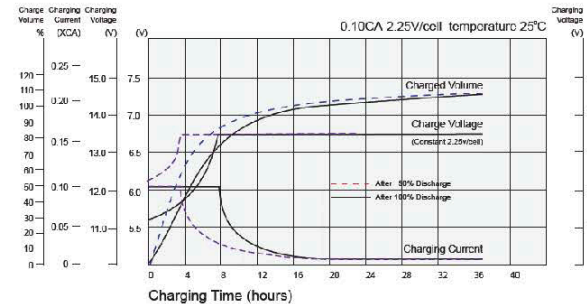
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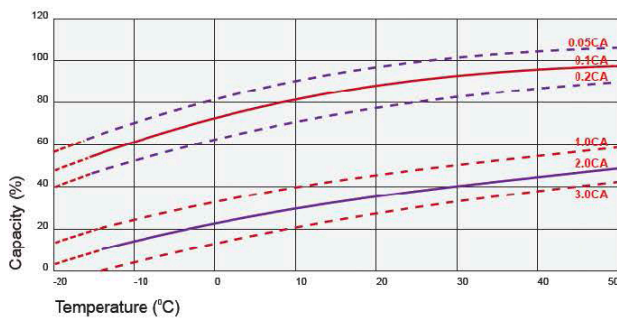
Battery Discharge Characteristics (25°C/77°F)



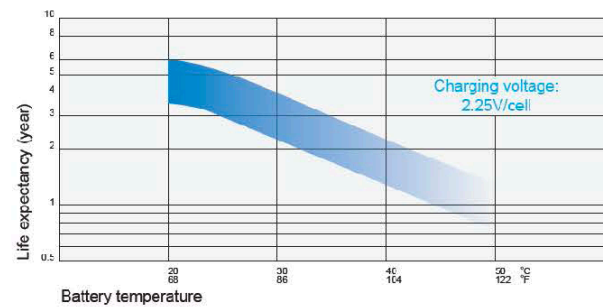
Battery Charge Characteristic for standby use



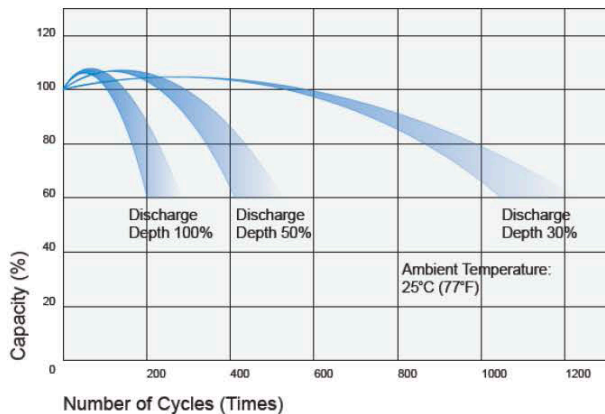
Temperature Effects in Relation to Battery Capacity



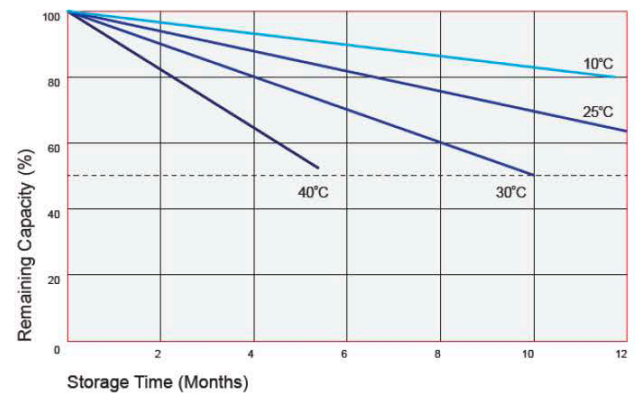
Temperature Effects on Long Term Float Life



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 < (A)	(A) > 1.0C