

Sealed Lead Acid (SLA) Batteries

12V 4.5AH - 4.8mm/F1 Terminal

Model: S 4532



This 12V 4.5Ah 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.

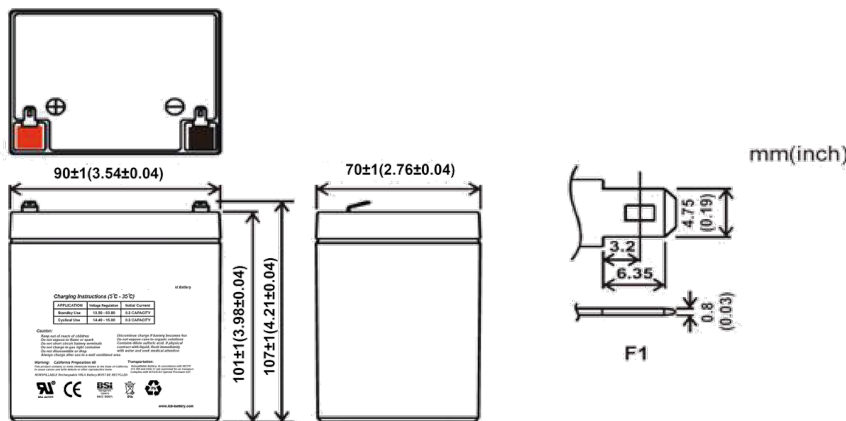
Our range of Powerhouse SLA batteries are from a quality supplier and are graded for use in UPS systems. We have found the quality of SLA batteries varies considerably between suppliers and often cheaper units have a shorter life span.

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

Cell per unit	6	Ambient temperature	Charge 0°C (32°F) to 40°C (104°F)
Nominal Voltage (V)	12	Discharge -15°C (5°F) to 50°C (122°F)	Storage -15°C (5°F) to 40°C (104°F)
Nominal Capacity (Ah)	4.5Ah@ 20hour rate F.V(1.75/cell)	Max charge Current	Max charge current : 1.35A
Weight	Approx1.50kg	Battery Life :	Stand by : 3~5 years
Internal Resistance (1KHz)	42mΩ	Terminal Type	F1
Max Discharge Current (5s)	50A	Container Material	ABS(Option : 94-HB & 94V-0 flame retardant case)
Cycle use :	Charge voltage: 14.4 to 15.0V		
Stand by :	Charge voltage: 13.50 to 13.80V		



DIMENSIONS	Length	Width	Height	Total Height
Unit: mm	90±1	70±1	101±1	107±1
Unit: inch	3.54±0.04	2.76±0.04	3.98±0.04	4.21±0.04



Constant current discharge characteristics Unit:A(25°C 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	10HR	20HR
1.60V	18.0	10.2	7.7	5.15	2.76	1.51	1.16	0.78	0.43	0.240
1.67V	17.5	9.9	7.6	5.05	2.74	1.48	1.15	0.77	0.42	0.230
1.70V	16.9	9.6	7.5	4.87	2.70	1.47	1.14	0.77	0.42	0.230
1.75V	16.3	9.4	7.2	4.70	2.60	1.43	1.12	0.76	0.41	0.225
1.80V	15.7	9.0	7.0	4.57	2.49	1.37	1.10	0.75	0.40	0.220

Constant power discharge characteristics Unit:W(25°C 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	10HR	20HR
1.60V	188.0	113.0	90.0	57.0	32.8	20.8	13.60	9.92	5.04	2.80
1.67V	186.0	112.0	88.0	54.5	32.4	19.9	13.50	9.81	5.05	2.74
1.70V	181.0	110.0	86.0	53.0	32.1	19.2	13.40	9.62	5.00	2.73
1.75V	175.7	108.0	84.0	52.9	31.5	18.8	13.20	9.35	4.98	2.72
1.80V	170.0	101.0	80.0	52.0	30.6	18.2	13.10	9.03	4.97	2.70

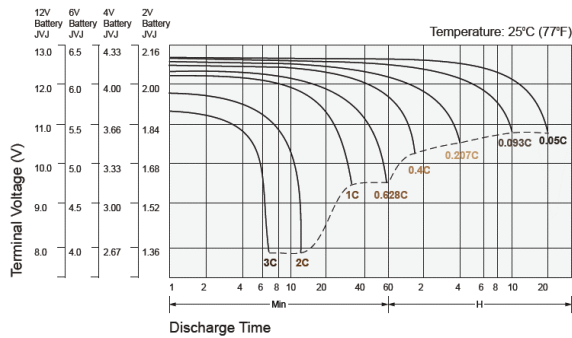
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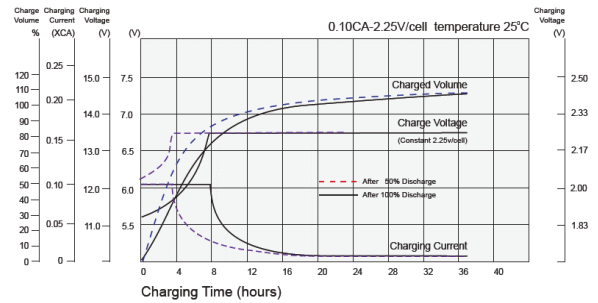
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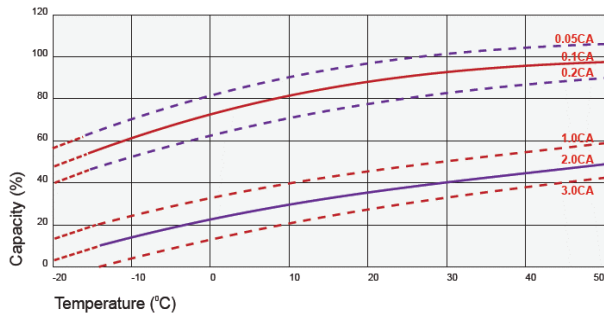
Battery Discharge Characteristics (25°C/77°F)



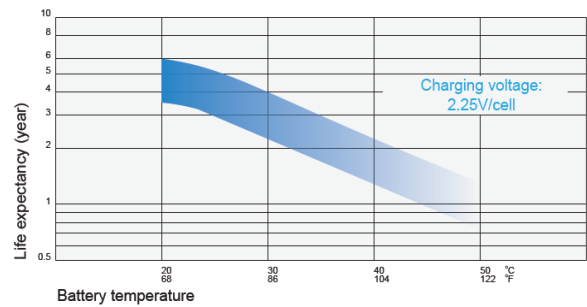
Battery Charge Characteristic for standby use



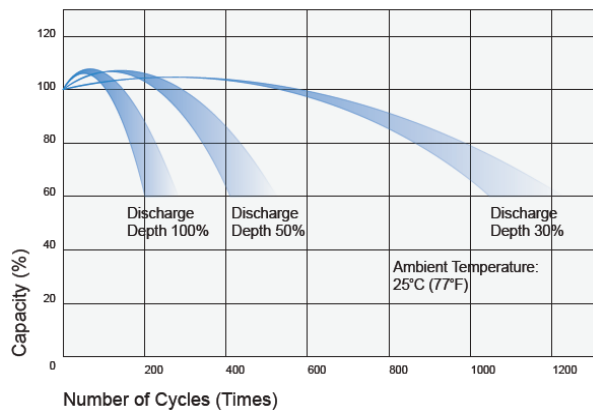
Temperature Effects in Relation to Battery Capacity



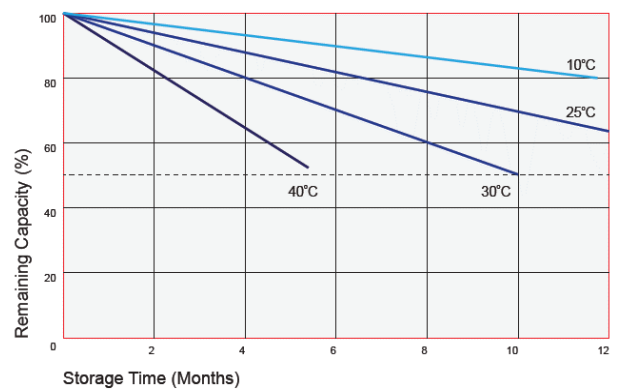
Temperature Effects on Long Term Float Life



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