

# Sealed Lead Acid (SLA) Batteries

## 12V 9AH - 4.8mm/F1 Terminal

### Model: S 4542



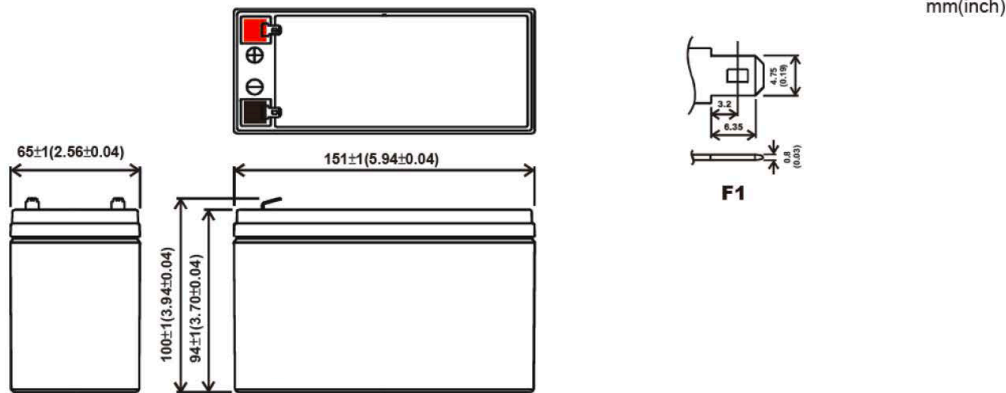
This 12V 9Ah sealed lead acid (SLA) battery is one of the most common size SLA batteries in use. It is commonly used in NBN boxes, battery back up systems, alarm and communications systems and UPS units. Fitted with 4.8mm spade connection tabs, these batteries are easily user replaced in most equipment 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) Discharge -15°C (5°F) to 50°C (122°F) Storage -15°C (5°F) to 40°C (104°F)
Nominal Voltage (V)	12	Max charge Current	
Nominal Capacity (Ah)	9Ah @ 20 hours rate F.V(1.75/cell)	Cycle use :	Max charge current : 2.52A
Weight	Approx 2.65 kg (5.84Lbs.)	Stand by :	Charge voltage: 14.4V to 15.0V
Internal Resistance (1KHz)	18mΩ	Terminal Type	F1
Max Discharge Current (5s)	135A (5s)	Container Material	ABS (Option : 94-HB & 94V-0 flame retardant case)
Battery Life :	Stand by : 3~5 years		
Terminal Type	F1		

DIMENSIONS	Length	Width	Height	Total Height
Unit: inch	5.94±0.04	2.56±0.04	3.70±0.04	3.94±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	37.00	25.00	17.00	9.98	5.21	3.12	2.40	1.52	0.85	0.46
1.67V	36.00	24.10	16.20	9.16	5.18	3.00	2.34	1.50	0.76	0.45
1.70V	34.00	23.30	15.50	8.75	5.14	2.97	2.25	1.48	0.76	0.44
1.75V	32.00	22.10	14.60	8.28	5.06	2.90	2.20	1.45	0.76	0.42
1.80V	30.00	20.20	14.00	7.92	4.99	2.82	2.15	1.40	0.75	0.40

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	432.0	261.6	208.8	120.0	71.5	37.3	25.9	19.3	9.76	5.20
1.67V	417.4	255.6	204.7	119.0	70.5	37.2	25.5	19.2	9.70	5.20
1.70V	400.1	250.8	200.1	118.0	70.3	37.0	25.4	19.0	9.58	5.10
1.75V	376.6	240.2	194.1	116.0	69.5	36.4	25.1	18.8	9.52	5.00
1.80V	325.4	230.4	185.6	113.0	68.8	36.0	25.1	18.6	9.30	5.00

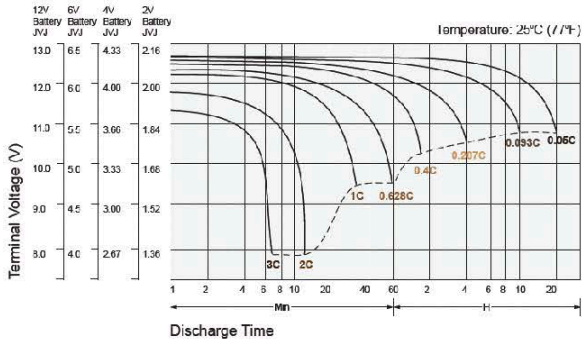
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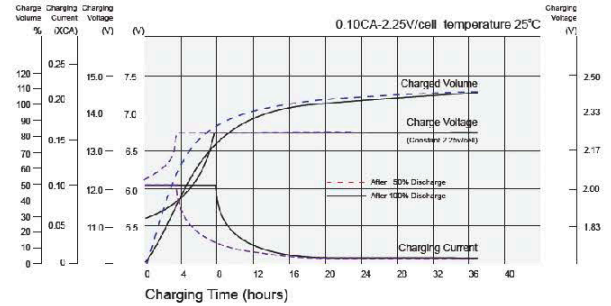
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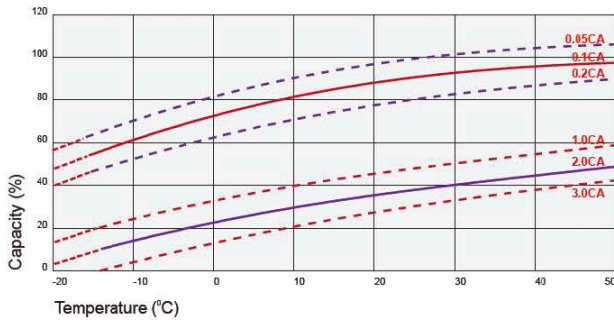
#### Battery Discharge Characteristics (25°C/77°F)



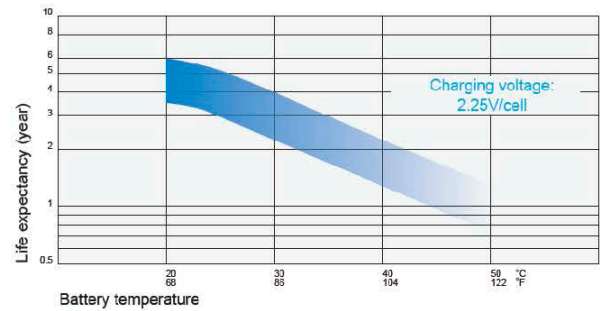
#### Battery Charge Characteristic for standby use



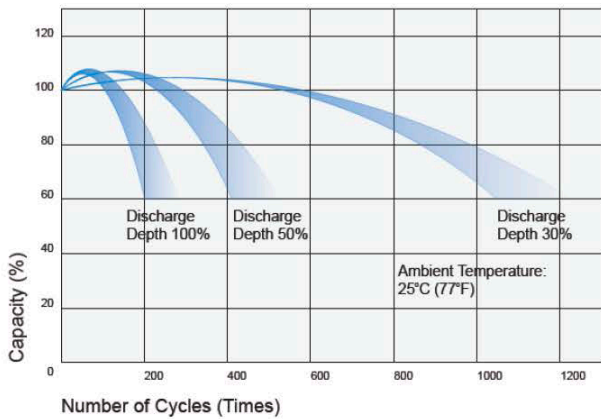
#### Temperature Effects in Relation to Battery Capacity



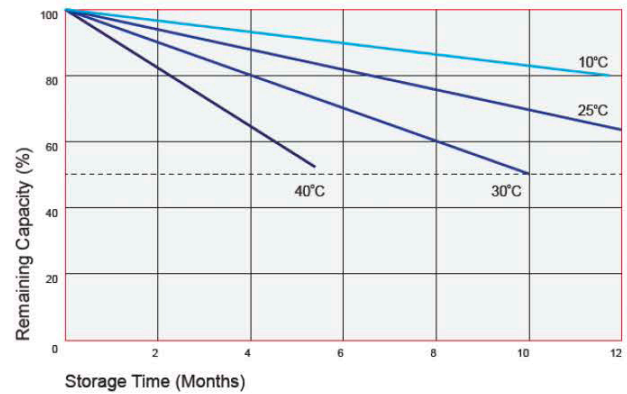
#### Temperature Effects on Long Term Float Life



#### 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
		<0.5C	<1.0C	