# Sealed Lead Acid (SLA) Batteries 12V 2.9AH - 4.8mm/F1 Terminal Model: S 4528





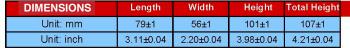
This 12V 2.9Ah sealed lead acid (SLA) battery is a compact battery for powering 12V equipment. It is commonly used in battery back up systems, alarm and communications systems and UPS units. Fitted with 4.8mm/F1 tab terminals, these batteries are easily user replaced in most equipment they are used in. 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 batter-

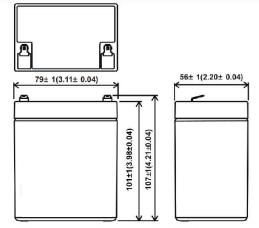
ies varies considerably between suppliers and often cheaper units have a

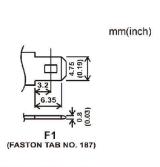
ActivFire Listed (afp3824). Conforms to IEC 60896-21:2004 and IEC 60896-22:2004.

Cell per unit	6	Ambient ten	nperature
Nominal Voltage (V)	12	Charge 0°C(	(32°F) to 40°ℂ (104°F)
Nominal Capacity (Ah)	2.9Ah @ 20hour rate F.V(1.75/cell)	Discharge -1	15°C(5°F) to 50°C (122°F)
Weight	Approx.1.10kg(2.42Lbs.)	Storage -15	°C(5°F) to 40°C (104°F)
Internal Resistance (1KHz)	34mΩ	Max charge	Current
Max Discharge Current (5s)	43.5A	Cycle use :	Max charge current : 0.87A
Battery Life :	Stand by : 3~5 years		Charge voltage: 14.4 to 15.0V
Terminal Type	F1	Stand by :	Charge voltage: 13.50 to 13.80V
Container Material	ABS(Option: 94-HB & 94V-0 flame	retardant case	e)

shorter life span.







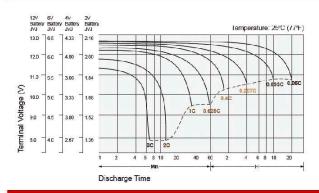
	Constant current discharge characteristics Unit:A(25°ℂ77°F)									
F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	11.19	5.63	3.34	1.82	1.06	0.82	0.537	0.351	0.291	0.152
1.67V	10.15	5.26	3.16	1.80	1.02	0.79	0.519	0.348	0.288	0.151
1.70V	9.20	4.95	2.99	1.76	1.00	0.76	0.505	0.343	0.282	0.149
1.75V	8.36	4.64	2.88	1.71	0.98	0.74	0.493	0.338	0.277	0.146
1.80V	7.41	4.24	2.77	1.63	0.94	0.73	0.480	0.332	0.270	0.145

	Constant power discharge characteristics Unit:W(25°ℂ77°F)									
F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	111.60	59.10	36.48	20.52	12.06	9.36	6.204	4.116	3.438	1.794
1.67V	103.20	56.16	34.80	20.46	11.64	9.12	6.030	4.086	3.408	1.788
1.70V	94.80	53.22	33.24	20.16	11.52	8.76	5.886	4.032	3.342	1.764
1.75V	88.80	50.58	32.16	19.56	11.28	8.56	5.754	3.984	3.282	1.734
1.80V	80.40	46.86	31.20	18.78	10.92	8.46	5.622	3.924	3.198	1.722

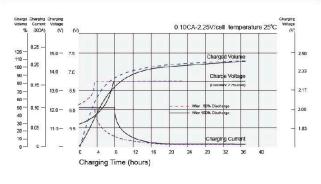
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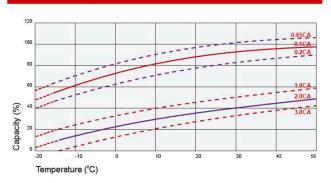
### Battery Discharge Characteristics (25°C/77°F)



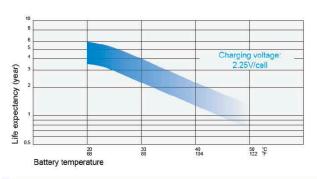
## **Battery Charge Characteristic for standby use**



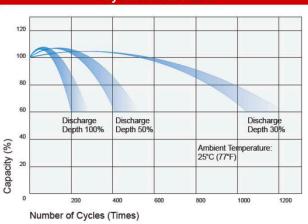
#### Temperature Effects in Relation to Battery Capacity



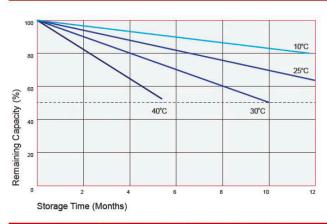
#### **Temperature Effects on Long Term Float Life**







### **Self Discharge Characteristics**



#### **Charging Procedures**

Application	C	Max. Charge		
	Temperature	Set Point	Allowable Range	Current
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.050
Standby	25°C(77°F)	2.275	2.25~2.30	0.25C

#### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.70	1.65	1.60
Discharge		0.2C<(A)	0.5C<(A)	4454.00
Current (A)	0.2C>(A)	<0.5C	<1.0C	(A)>1.0C