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.

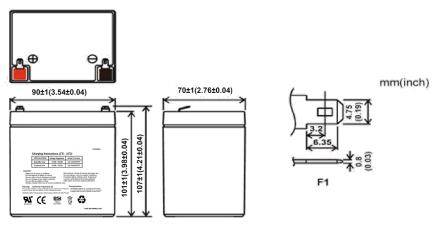
Our range of Powerhouse SLA batteries are from a quality supplier and are graded for use in UPS systems. We have found the quality of SLA batteries varies considerably between suppliers and often cheaper units have a shorter life span.

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

Cell per unit	6	Ambient temperature
Nominal Voltage (V)	12	Charge 0°C (32°F) to 40°C (104°F)
Nominal Capacity (Ah)	4.5Ah@ 20hour rate F.V(1.75/cell)	Discharge -15°C(5°F) to 50°C (122°F)
Weight	Approx1.50kg	Storage -15°C (5°F) to 40°C (104°F)
Internal Resistance (1KHz)	42mΩ	Max charge Current
Max Discharge Current (5s)	50A	Max charge current: 1.35A
Battery Life :	Stand by : 3~5 years	Cycle use: 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)



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



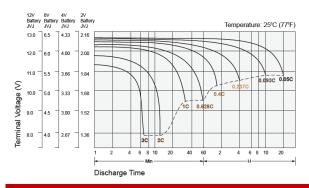
	Constant current discharge characteristics Unit:A(25°C77°F)									
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	10HR	20HR
1.60V	18.0	10.2	7.7	5.15	2.76	1.51	1.16	78.00	0.43	0.240
1.67V	17.5	9.9	7.6	5.05	2.74	1.48	1.15	0.77	0.42	0.230
1.70V	16.9	9.6	7.5	4.87	2.70	1.47	1.14	0.77	0.42	0.230
1.75V	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°C77°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

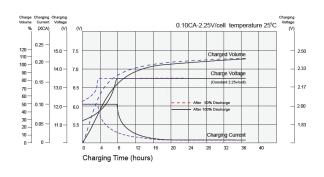
Sealed Lead Acid (SLA) Batteries 12V 4.5AH - 4.8mm/F1 Terminal Model: S 4532



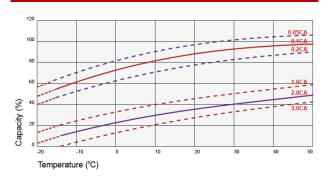
Battery Discharge Characteristics (25°C/77°F)



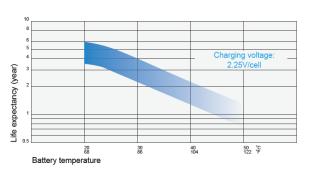
Battery Charge Characteristic for standby use



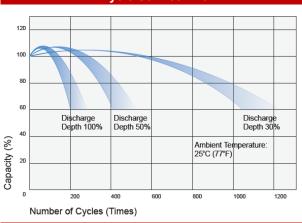
Temperature Effects in Relation to Battery Capacity



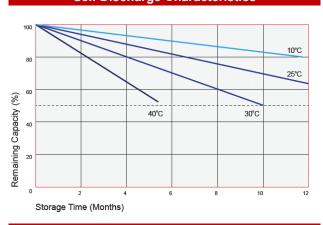
Temperature Effects on Long Term Float Life



Cycle Service Life



Self Discharge Characteristics



Charging Procedures

A liti	CI	Max. Charge		
Application	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	0.20>(A)	0.2C<(A)	0.5C<(A)	(4)>1.00
Current (A)	0.2C>(A)	<0.5C	<1.0C	(A)>1.0C