

Sealed Lead Acid (SLA) Batteries

12V 40AH - M6/F8 Terminal

Model: S 4563



This 12V 40Ah 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 M6 bolt and nut 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 batteries varies considerably between suppliers and often cheaper units have a shorter life span.

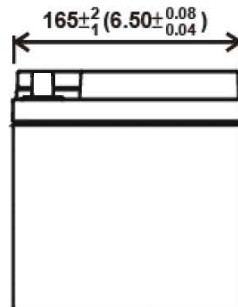
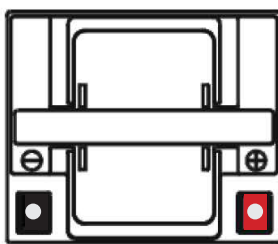
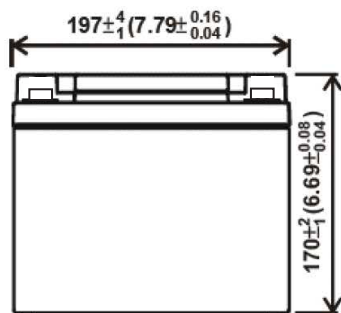
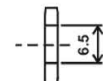
ActivFire Listed (afp3824). Conforms to IEC 60896-21:2004 and IEC 60896-22:2004.

Cell per unit	6	Ambient temperature	
Nominal Voltage (V)	12	Charge	0°C (32°F) to 40°C (104°F)
Nominal Capacity (Ah)	40Ah@ 20hour rate F.V(1.75/cell)	Discharge	-15°C (5°F) to 50°C (122°F)
Weight	Approx 12.83kg (28.28Lbs.)	Storage	-15°C (5°F) to 40°C (104°F)
Internal Resistance (1KHz)	10mΩ	Max charge Current	
Max Discharge Current (5s)	380A		Max charge current : 12A
Battery Life :	Stand by : 3~5 years	Cycle use :	Charge voltage: 14.4 to 15.0V
Terminal Type	M6/F8	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	197±4	165±2	170±2	170±2
Unit: inch	7.75±0.16	6.49±0.08	6.69±0.08	6.69±0.04

mm



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	171.0	81.0	40.9	24.6	13.9	10.10	7.13	5.35	3.90	2.14
1.67V	168.0	75.0	40.0	23.5	13.8	10.00	7.02	5.25	3.85	2.12
1.70V	157.0	72.0	38.9	22.7	13.5	9.62	6.98	5.10	3.81	2.07
1.75V	140.0	66.0	34.9	23.2	13.1	9.27	6.84	5.00	3.80	2.03
1.80V	103.0	61.2	30.7	22.5	12.6	9.17	6.68	4.90	3.80	1.95

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	1,951	927.0	494.0	272.9	168.0	126.3	87.2	50.0	40.22	21.19
1.67V	1,919	913.0	487.0	270.4	167.0	125.7	86.6	49.6	40.20	21.19
1.70V	1,795	861.0	459.0	266.9	164.0	120.0	85.2	49.0	40.10	21.08
1.75V	1,603	780.0	416.0	262.4	161.0	117.0	83.6	48.4	39.80	21.08
1.80V	1,337	663.0	354.0	254.5	155.0	113.0	81.4	47.6	39.30	20.69

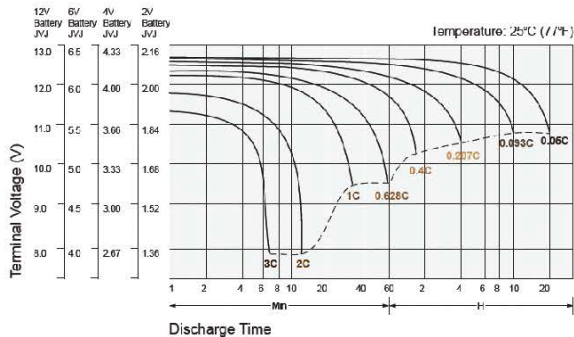
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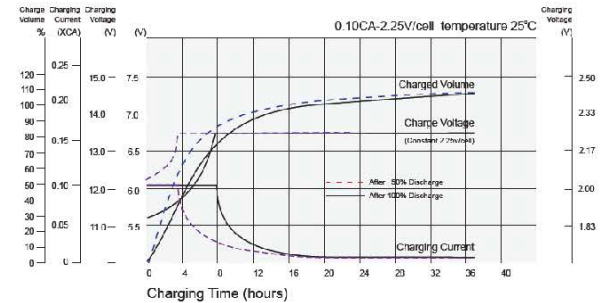
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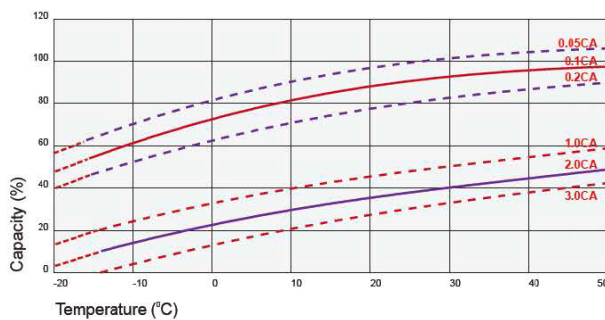
Battery Discharge Characteristics (25°C/77°F)



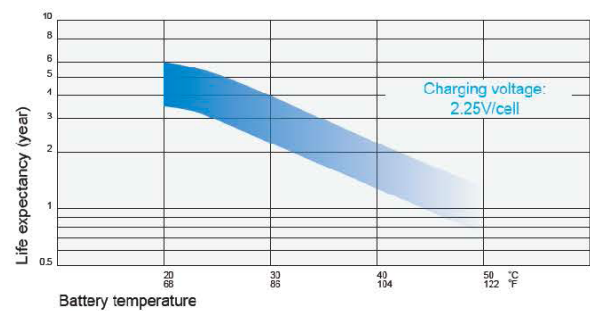
Battery Charge Characteristic for standby use



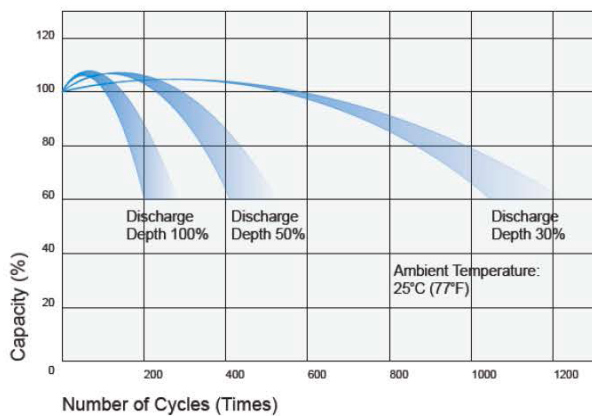
Temperature Effects in Relation to Battery Capacity



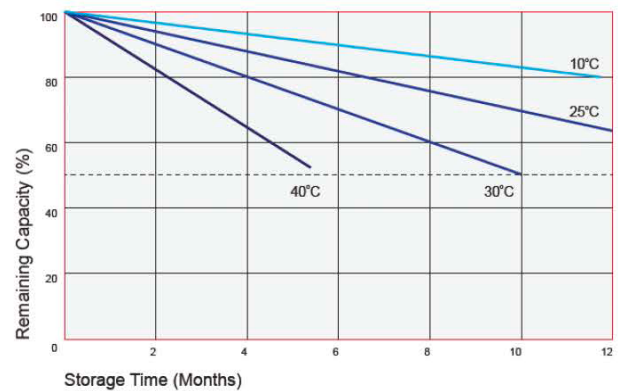
Temperature Effects on Long Term Float Life



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