Sealed Lead Acid (SLA) Batteries 12V 90AH - M6/F8 Terminal Model: S 4574

S 4574

by LCB

Powerhouse

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ATTERIE

This 12V 90Ah 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.

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BATTERIES

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.

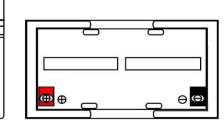
Cell per unit	6	Ambient terr	nperature		
Nominal Voltage (V)	12	Charge 0℃	(32°F) to 40°C (104°F)		
Nominal Capacity (Ah)	90Ah @20hour rate F.V(1.75/Cell)	20hour rate F.V(1.75/Cell) Discharge -15°C(5°F) to 50°C (122°F)			
Weight	Approx.27.50 kg	Storage -15	°C(5°F) to 40°C (104°F)		
Internal Resistance (1KHz)	≦6mΩ	Max charge	Current		
Aax Discharge Current (5s)	1080A (5s)		Max charge current : 27A		
Battery Life :	Stand by : 3~5 years	Cycle use :	Charge voltage: 14.4V to 15.0V		
Terminal Type	M6/F8	Stand by :	Charge voltage: 13.5V to 13.8V		
Container Material	ABS(Option : 94-HB & 94V-0 flame	retardant case)			

DIMENSIONS	Length	Width	Height	Total Height
Unit: mm	305±3	168±2	208±3	213 ±3
Unit: inch	12.01±0.12	6.61±0.08	8.19±0.12	9.06±0.12



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) (0.12)	:0.12)	F
			208±3(8.19±0.12)	213 ±3(9.06±0.12)	
			208±3	213 ±	
	v			 V 	



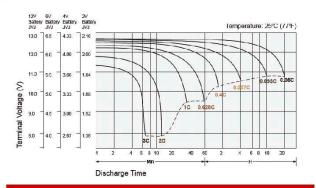


Constant current discharge characteristics Unit:A(25℃77°F)										
F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	319.42	174.76	108.45	66.70	32.82	26.00	16.41	10.87	9.19	4.90
1.67V	303.30	172.72	106.80	65.53	31.75	25.50	15.83	10.68	9.10	4.88
1.70V	288.35	167.28	106.02	65.24	30.68	25.10	15.44	10.58	9.03	4.82
1.75V	262.33	163.50	104.95	63.88	29.71	23.10	15.05	10.39	9.00	4.73
1.80V	239.32	156.21	101.94	62.91	28.64	23.00	14.66	10.19	8.80	4.68

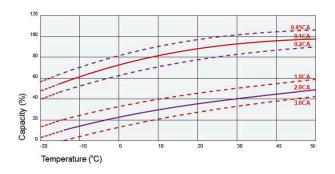
Constant power discharge characteristics Unit:W(25℃77°F)										
F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	3102.00	1728.0	1062.0	618.0	366.29	282.29	195.00	130.80	111.60	57.96
1.67V	2880.00	1644.0	1014.0	600.0	356.00	274.86	189.60	129.60	110.40	57.72
1.70V	2646.00	1560.0	966.0	582.0	348.57	265.14	185.40	127.80	108.60	57.06
1.75V	2472.00	1482.0	936.0	570.0	336.00	258.29	181.20	126.60	107.40	55.98
1.80V	2244.00	1374.0	906.0	546.0	325.14	254.86	177.00	124.80	106.80	55.56

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



Temperature Effects in Relation to Battery Capacity



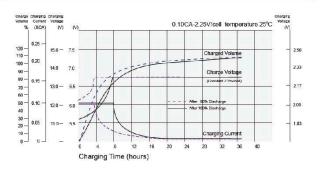
Cycle Service Life 120 100 80 60 Discharge Depth 100% Discharge Depth 50% Discharge Depth 30% 40 Capacity (%) Ambient Temperature: 25°C (77°F) 20 0 200 800 1200 600 1000 Number of Cycles (Times)

Charging Procedures

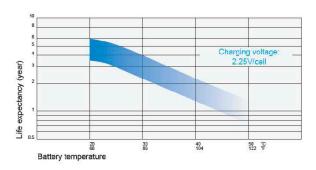
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Application	C	Charge Voltage(V/cell)				
Application	Temperature	Set Point	Allowable Range	Current		
Cycle Use	25℃(77°F)	2.45	2.40~2.50	0.050		
Standby	25℃(77°F)	2.275	2.25~2.30	0.25C		

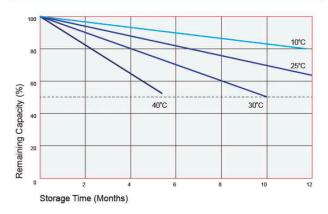
Battery Charge Characteristic for standby use



Temperature Effects on Long Term Float Life



Self Discharge Characteristics



Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.70	1.65	1.60	
Discharge	0.202/02	0.2C<(A) 0.5C<(A)		(A)>1.0C	
Current (A)	0.2C>(A)	<0.5C	<1.0C	(A)>1.0C	