SB5-12L (12V5Ah)

AGM-Technology | Maintenance Free | 6-9 Years Life Expect. EUROBAT | Cycle Stability | -15°C to +50°C

Standard Type | Fire Alarm Systems | Security Systems | Recyclable

Applications

- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Alarm and security system
- Communication power supply
- DC power supply

Certificates

ISO 9001 Conform to IEC60896-21&22

Specifications

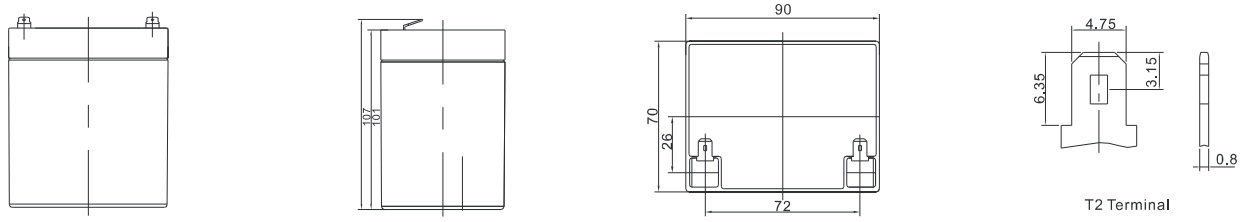
Nominal Voltage	12V	
Nominal Capacity	5Ah (C_{20}, 10.5V)	
Approx. Weight	1.35kg	
Terminal	T2	
Container Material	ABS UL94 HB/UL94 V0	
Rated Capacity (20°C)	5.0Ah/0.250A, 20hr, 10.5V	
	4.67Ah/0.467A, 10hr, 10.8V	
	4.36Ah/0.872A, 5hr, 10.5V	
	3.87Ah/1.290A, 3hr, 10.5V	
	2.75Ah/2.750A, 1hr, 10.5V	
Max. Discharge Current	50A (5s)	
Internal Resistance / Impedance (1kHz)	Approx. 42mΩ	
Operating Temp. Range	Discharge:	-20~50°C
	Charge:	-10~50°C
	Storage:	-20~50°C

Nominal Oper. Temp. R.	20±3°C	
Cycle Use	Initial Charging Current less than 1.5A.	
	Voltage 14.40V~14.7V at 20°C.	
	Temperature Coefficient -30mV/°C.	
Standby Use	No limit on Initial Charging Current.	
	Voltage 13.38V~13.8V at 20°C.	
	Temperature Coefficient -20mV/°C.	
Capacity affected by Temp.	40°C	103%
	25°C	100%
	0°C	86%
Self Discharge	SSB batteries may be stored for up to 6 months at 20°C and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Life Expectancy	6-9 years according to EUROBAT	

Dimensions

T2 Terminal

Unit: mm | Dimensions: 90 Length X 70 Width X 101 Height (107 Height incl. Terminal)



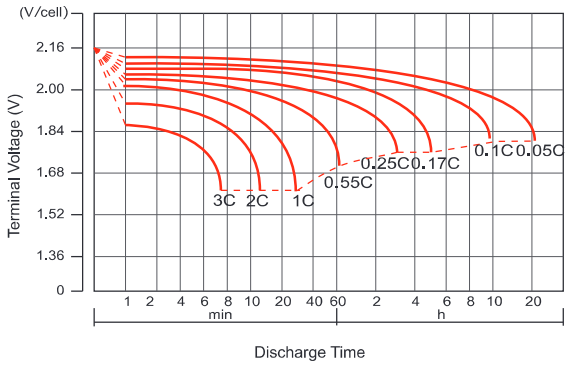
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	18.97	13.41	9.692	5.567	3.055	1.876	1.410	1.138	0.943	0.607	0.493	0.260
1.65V/cell	17.64	12.67	9.266	5.344	2.950	1.816	1.366	1.108	0.919	0.600	0.487	0.256
1.70V/cell	15.92	11.66	8.679	5.108	2.854	1.756	1.329	1.077	0.895	0.591	0.480	0.253
1.75V/cell	14.26	10.68	8.076	4.882	2.750	1.695	1.290	1.050	0.872	0.583	0.473	0.250
1.80V/cell	12.52	9.664	7.457	4.666	2.645	1.634	1.250	1.020	0.850	0.573	0.467	0.248
1.85V/cell	9.939	7.898	6.188	4.019	2.372	1.497	1.155	0.948	0.792	0.538	0.440	0.235

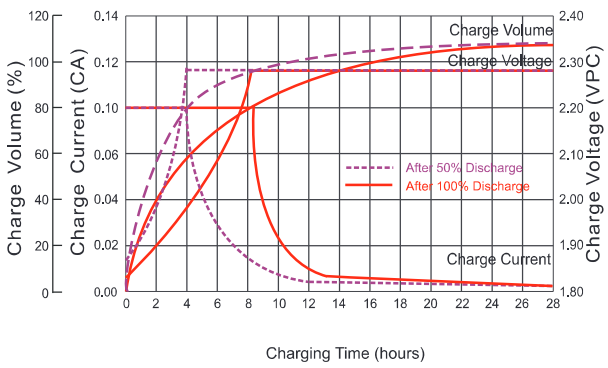
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	31.45	22.79	16.94	10.11	5.741	3.555	2.693	2.185	1.818	1.186	0.969	0.513
1.65V/cell	29.58	21.95	16.44	9.809	5.576	3.458	2.621	2.134	1.778	1.175	0.959	0.505
1.70V/cell	27.30	20.58	15.63	9.469	5.428	3.363	2.561	2.084	1.737	1.159	0.945	0.500
1.75V/cell	25.00	19.18	14.75	9.144	5.261	3.260	2.495	2.038	1.699	1.145	0.934	0.494
1.80V/cell	22.42	17.66	13.82	8.828	5.089	3.159	2.427	1.987	1.661	1.128	0.923	0.490
1.85V/cell	18.17	14.69	11.63	7.679	4.593	2.911	2.254	1.854	1.555	1.062	0.871	0.466

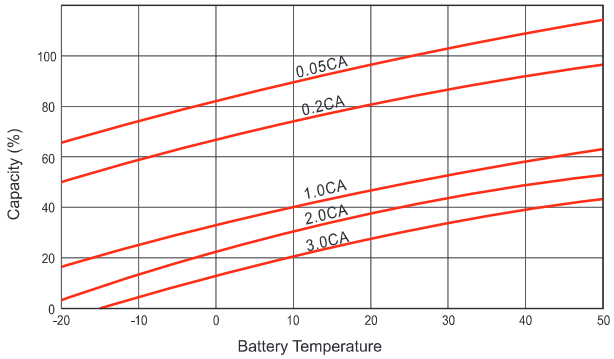
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life