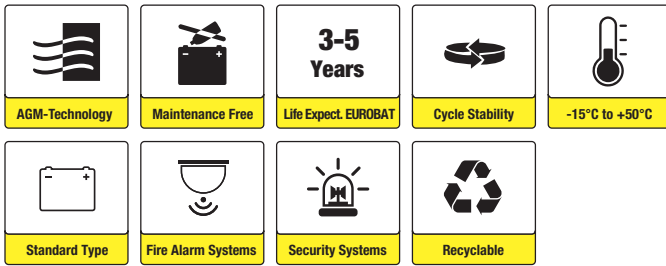




⊕⊖ sunbattery®

# SB6-1.2/SB6-1.2V0 (6V1.2Ah)



## 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



Conform to  
IEC60896-21&22

## Specifications

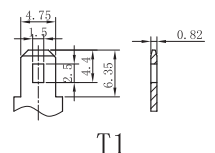
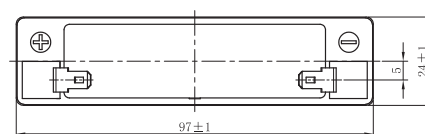
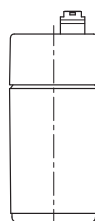
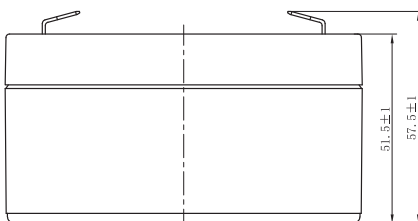
<b>Nominal Voltage</b>	6V
<b>Nominal Capacity</b>	1.2Ah (C <sub>20</sub> 1.75V/cell)
<b>Approx. Weight</b>	0.29kg
<b>Terminal</b>	T1
<b>Container Material</b>	ABS UL94 HB/UL94 V0
<b>Rated Capacity (25°C)</b>	1.20Ah/0.060A, 20hr, 1.75V/cell 1.13Ah/0.113A, 10hr, 1.75V/cell 1.04Ah/0.207A, 5hr, 1.75V/cell 0.918 Ah/0.306A, 3hr, 1.75V/cell 0.789 Ah/0.789A, 1hr, 1.60V/cell
<b>Max. Discharge Current</b>	18A (5s)
<b>Internal Resistance / Impedance (1kHz)</b>	Approx. 65mΩ
<b>Operating Temp. Range</b>	Discharge: -15~50°C Charge: 0~40°C Storage: -15~40°C

<b>Nominal Oper. Temp. R.</b>	25±3°C
<b>Cycle Use</b>	Initial Charging Current less than 0.36A. Voltage 7.2V~7.5V at 25°C. Temperature Coefficient -10mV/°C.
<b>Standby Use</b>	No limit on Initial Charging Current. Voltage 6.75V~6.9V at 25°C Temp. Coefficient -10mV/°C
<b>Capacity affected by Temp.</b>	40°C 103% 25°C 100% 0°C 86%
<b>Self Discharge</b>	SB batteries may be stored for up to 6 months at 25°C and then a freshening charge is required. For higher temperatures the time interval will be shorter.
<b>Life Expectancy</b>	3-5 years according to EUROBAT

## Dimensions

### ■ T1 Terminal

Unit: mm [inches]





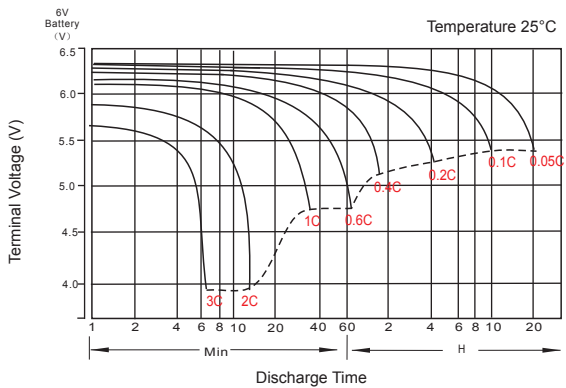
### Constant Current Discharge (Amperes) at 25°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	3.73	2.28	1.78	1.48	1.10	0.813	0.714	0.411	0.296	0.236	0.201	0.172	0.136	0.111	0.059
1.80V/cell	4.01	2.42	1.86	1.54	1.14	0.835	0.731	0.418	0.301	0.240	0.204	0.175	0.138	0.112	0.059
1.75V/cell	4.23	2.52	1.92	1.59	1.17	0.853	0.746	0.426	0.306	0.243	0.207	0.177	0.139	0.113	0.060
1.70V/cell	4.43	2.62	1.99	1.63	1.20	0.872	0.760	0.432	0.311	0.246	0.209	0.179	0.141	0.115	0.060
1.65V/cell	4.58	2.69	2.04	1.67	1.22	0.886	0.771	0.437	0.314	0.249	0.211	0.181	0.142	0.115	0.061
1.60V/cell	4.86	2.80	2.11	1.72	1.25	0.908	0.789	0.446	0.319	0.253	0.215	0.183	0.144	0.117	0.062

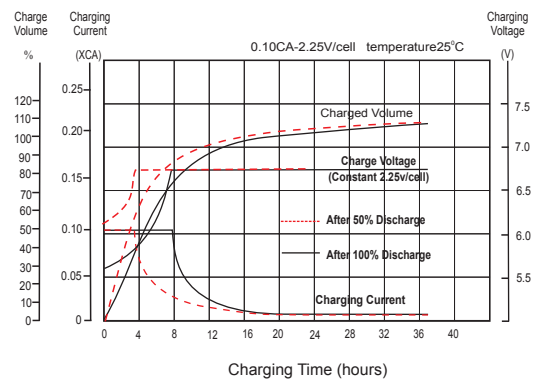
### Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	7.06	4.34	3.40	2.86	2.13	1.58	1.39	0.804	0.583	0.465	0.397	0.341	0.269	0.220	0.117
1.80V/cell	7.52	4.57	3.55	2.96	2.19	1.61	1.42	0.817	0.591	0.471	0.402	0.345	0.273	0.223	0.119
1.75V/cell	7.84	4.72	3.64	3.02	2.23	1.64	1.44	0.830	0.599	0.477	0.407	0.349	0.275	0.225	0.120
1.70V/cell	8.13	4.87	3.74	3.09	2.28	1.67	1.46	0.840	0.607	0.412	0.406	0.353	0.278	0.227	0.121
1.65V/cell	8.34	4.98	3.82	3.15	2.32	1.70	1.48	0.848	0.612	0.487	0.415	0.356	0.280	0.229	0.122
1.60V/cell	8.68	5.13	3.92	3.23	2.37	1.73	1.51	0.862	0.621	0.494	0.420	0.360	0.284	0.232	0.123

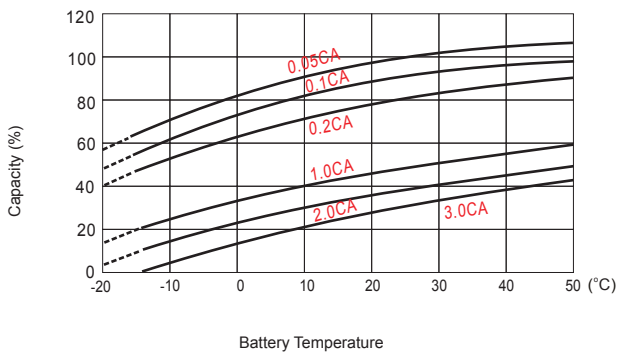
### Discharge Characteristics



### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life

