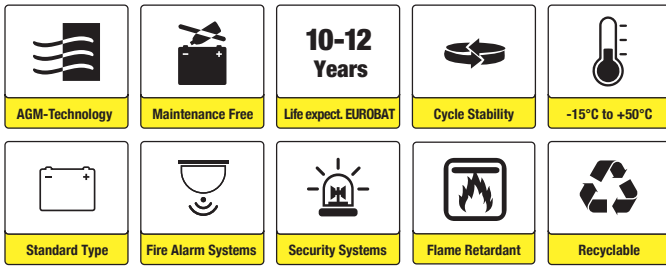


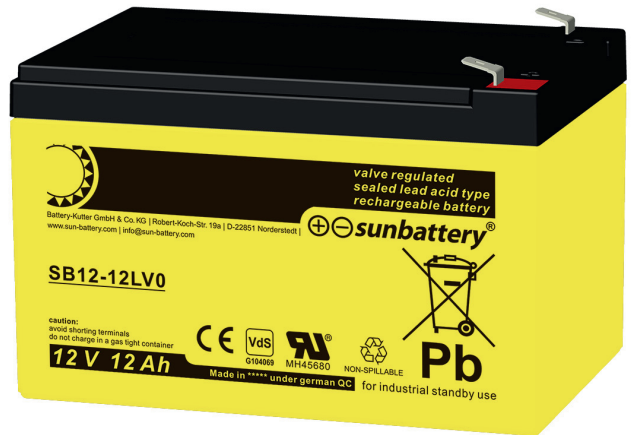


# SB12-12LV0 (12V12Ah)



## Applications

- UPS and EPS
- Emergency light
- Railway signal and aircraft
- Signal system
- Marine and power stations
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply



## Certificates



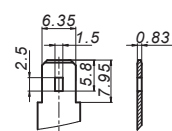
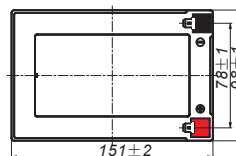
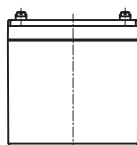
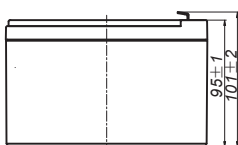
## Specifications

<b>Nominal Voltage</b>	12V	<b>Nominal Oper. Temp. R.</b>	25±3°C
<b>Nominal Capacity</b>	12.0Ah (C <sub>20</sub> , 1.80V/cell)	<b>Cycle Use</b>	Initial Charging Current less than 3.6A. Voltage 14.7V +1% at 25°C. Temperature Coefficient -30mV/°C.
<b>Approx. Weight</b>	3.85kg	<b>Standby Use</b>	No limit on Initial Charging Current. Voltage 13.65V +1% at 25°C Temp. Coefficient -20mV/°C
<b>Terminal</b>	T2	<b>Capacity affected by Temp.</b>	40°C            103% 25°C            100% 0°C              86%
<b>Container Material</b>	ABS UL94 V0	<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>Rated Capacity (25°C)</b>	12.00Ah/0.600A, 20hr, 1.80V/cell 11.40Ah/1.14A, 10hr, 1.80V/cell 10.65Ah/2.13A, 5hr, 1.75V/cell 9.39Ah/3.13A, 3hr, 1.75V/cell 7.89Ah/7.89A, 1hr, 1.60V/cell	<b>Life Expectancy</b>	10-12 years according to EUROBAT
<b>Max. Discharge Current</b>	180A (5s)		
<b>Internal Resistance / Impedance (1kHz)</b>	Approx. 19mΩ		
<b>Operating Temp. Range</b>	Discharge:        -15~50°C Charge:            0~40°C Storage:           -15~40°C		

## Dimensions

### ■ T2 Terminal

Unit: mm | Dimensions: 151 Length X 98 Width X 95 Height (101 Height incl. Terminal)





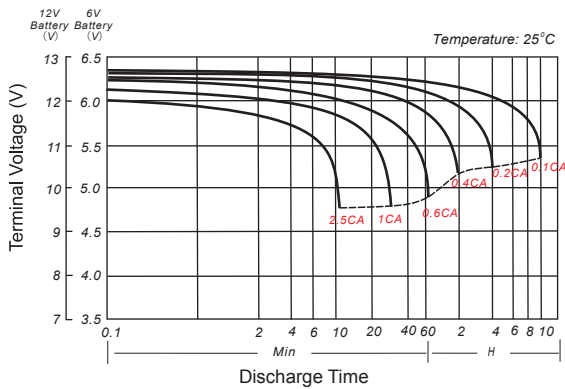
### Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	23.9	18.9	15.9	12.0	8.84	7.23	4.19	3.04	2.46	2.08	1.78	1.40	1.13	0.588
1.80V/cell	25.1	19.7	16.4	12.4	9.02	7.36	4.26	3.08	2.49	2.11	1.80	1.41	1.14	0.600
1.75V/cell	26.3	20.4	16.9	12.6	9.20	7.49	4.32	3.13	2.53	2.13	1.82	1.43	1.16	0.602
1.70V/cell	27.6	21.1	17.4	12.9	9.37	7.62	4.39	3.17	2.56	2.16	1.85	1.45	1.17	0.607
1.65V/cell	28.3	21.6	17.7	13.1	9.48	7.70	4.43	3.20	2.58	2.18	1.86	1.46	1.18	0.610
1.60V/cell	30.0	22.6	18.4	13.5	9.73	7.89	4.52	3.27	2.63	2.22	1.89	1.48	1.20	0.619

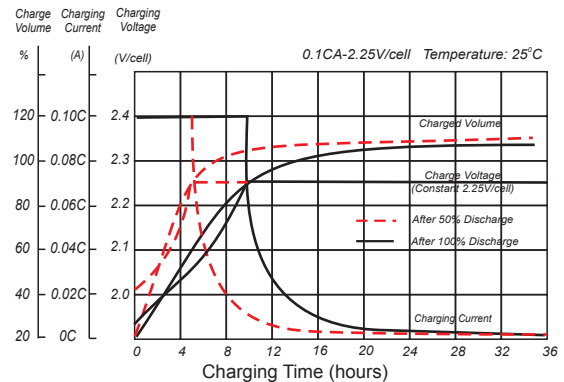
### Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	45.7	36.4	30.7	23.3	17.2	14.1	8.21	5.97	4.84	4.10	3.52	2.77	2.24	1.18
1.80V/cell	47.7	37.6	31.5	23.8	17.4	14.3	8.31	6.05	4.90	4.15	3.56	2.80	2.27	1.19
1.75V/cell	49.8	38.8	32.2	24.2	17.7	14.5	8.42	6.12	4.96	4.20	3.60	2.83	2.29	1.20
1.70V/cell	51.8	40.0	33.1	24.7	18.0	14.7	8.53	6.20	5.02	4.25	3.64	2.86	2.32	1.21
1.65V/cell	53.0	40.7	33.5	25.0	18.1	14.8	8.60	6.25	5.05	4.28	3.66	2.88	2.33	1.22
1.60V/cell	55.8	42.2	34.6	25.6	18.5	15.1	8.74	6.35	5.13	4.34	3.72	2.93	2.37	1.24

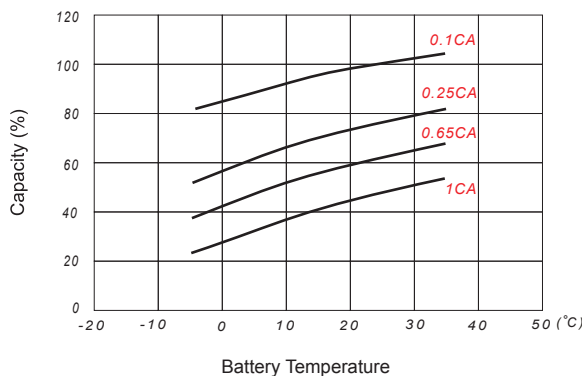
### Discharge Characteristics



### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life

