



# SB7-12L (12V7Ah)



## 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



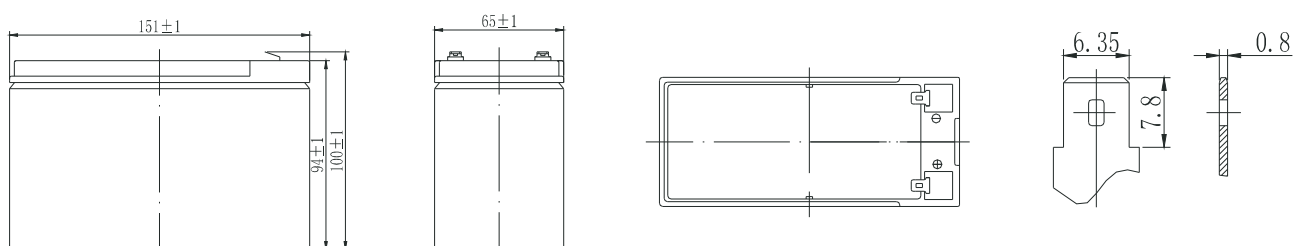
## Specifications

<b>Nominal Voltage</b>	12V	<b>Nominal Oper. Temp. R.</b>	20±3°C
<b>Nominal Capacity</b>	7.0Ah (C <sub>20</sub> 10.8V)	<b>Cycle Use</b>	Initial Charging Current less than 2.88A. Voltage 14.55V +-1% at 20°C. Temperature Coefficient -30mV/°C.
<b>Approx. Weight</b>	2.20kg	<b>Standby Use</b>	No limit on Initial Charging Current. Voltage 13.65V +-1% at 20°C. Temperature 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 HB	<b>Self Discharge</b>	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.
<b>Rated Capacity (20°C)</b>	7.0Ah, 0.35A, 20hr, 10.8V 6.7Ah, 0.67A, 10hr, 10.8V 5.6Ah/1.12A, 5hr, 10.5V 5.07Ah/1.69A, 3hr, 10.5V 4.8Ah/4.8A, 1hr, 9.6V	<b>Life Expectancy</b>	6-9 years according to EUROBAT
<b>Max. Discharge Current</b>	105A (5s)		
<b>Internal Resistance / Impedance (1kHz)</b>	Approx. 28mΩ		
<b>Operating Temp. Range</b>	Discharge:        -20~50°C Charge:            -10~50°C Storage:           -20~50°C		

## Dimensions

### ■ T2 Terminal

Unit: mm | Dimensions: 151 Length X 65 Width X 94 Height (100 Height incl. Terminal)



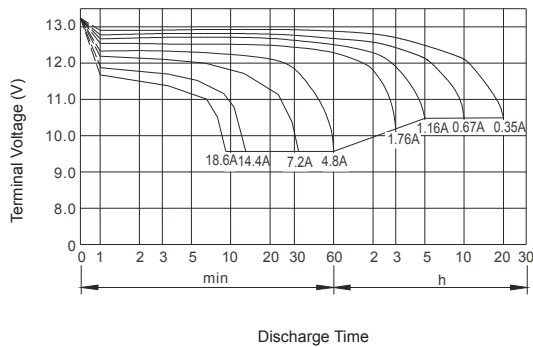
### Constant Current Discharge (Amperes) at 25°C

End Point	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V/cell	30.0	18.8	15.3	8.50	4.80	1.88	1.25	0.71	0.38
1.65V/cell	28.4	17.9	14.6	8.15	4.63	1.82	1.20	0.70	0.38
1.70V/cell	26.8	17.0	13.9	7.86	4.44	1.76	1.16	0.70	0.37
1.75V/cell	25.2	16.0	13.2	7.56	4.25	1.69	1.12	0.69	0.36
1.80V/cell	23.5	15.1	12.5	7.18	4.04	1.64	1.10	0.67	0.35

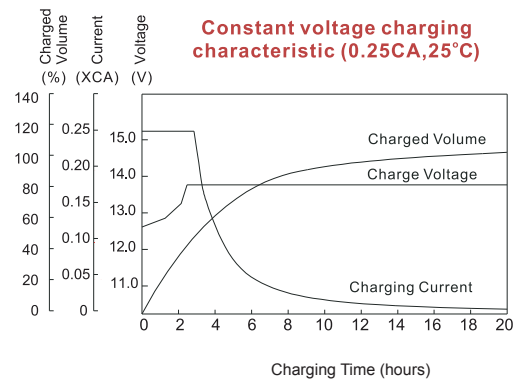
### Constant Power Discharge (Watts/cell) at 25°C

End Point	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V/cell	53.3	35.8	28.1	15.5	11.8	9.30	5.13	3.68	2.38
1.65V/cell	50.7	34.0	27.0	14.9	11.3	8.90	5.02	3.59	2.34
1.70V/cell	48.1	32.2	25.9	14.3	10.8	8.53	4.89	3.49	2.30
1.75V/cell	45.6	30.4	24.8	13.7	10.4	8.28	4.73	3.38	2.25
1.80V/cell	43.1	28.6	23.8	13.2	10.0	7.90	4.58	3.27	2.19

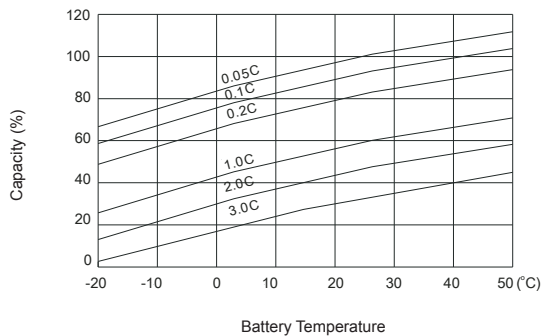
### Discharge Characteristics



### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life

