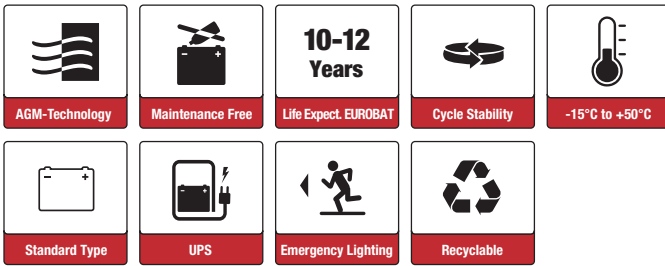




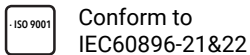
# SBL120-12i(sh) (12V120Ah)



## 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



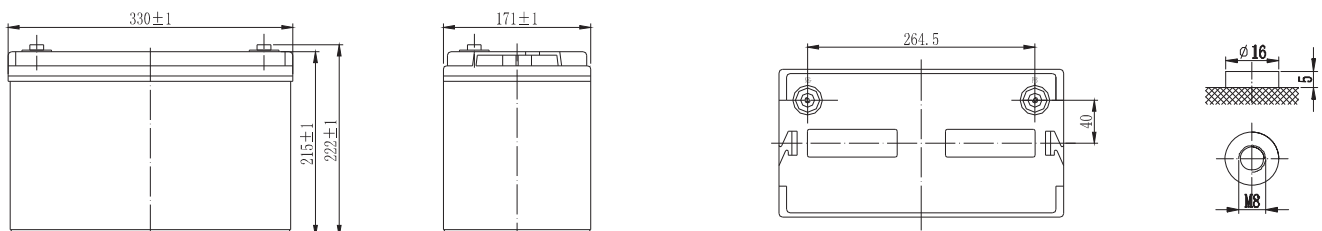
## Specifications

<b>Nominal Voltage</b>	12V	<b>Operating Temp. Range</b>	Discharge: -20~50°C
<b>Nominal Capacity</b>	120.0Ah (C <sub>10</sub> , 10.8V)		Charge: -10~50°C
<b>Approx. Weight</b>	32.5kg		Storage: -20~50°C
<b>Terminal</b>	M8	<b>Cycle Use</b>	Initial Charging Current less than 36.0A.
<b>Container Material</b>	ABS UL94 HB		Voltage 14.55V +1% at 20°C.
<b>Rated Capacity (20°C)</b>	126Ah/6.30A, 20hr, 10.8V		Temperature Coefficient -30mV/°C.
	120.0Ah/12.0A, 10hr, 10.8V	<b>Standby Use</b>	No limit on Initial Charging Current.
	109.76Ah/13.72A, 8hr, 10.5V		Voltage 13.65V +1% at 20°C.
	93.5Ah/18.7A, 5hr, 10.5V		Temperature Coefficient -20mV/°C.
	81.3Ah/27.1A, 3hr, 10.5V	<b>Capacity affected by Temp.</b>	40°C 103%
	71.6Ah/71.6A, 1hr, 9.6V		25°C 100%
<b>Max. Discharge Current</b>	950A (5s)		0°C 86%
<b>Internal Resistance / Impedance (1kHz)</b>	Approx. 5.3mΩ	<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>Nominal Oper. Temp. R.</b>	20±3°C	<b>Life Expectancy</b>	10-12 years according to EUROBAT

## Dimensions

### ■ M8 Terminal

Unit: mm | Dimensions: 330 Length X 171 Width X 215 Height (222 Height incl. Terminal)



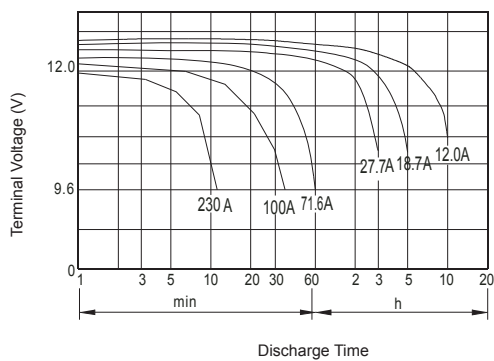
### Constant Current Discharge (Amperes) at 20°C

End Point	10min	15min	30min	45min	1h	1.5h	3h	5h	8h	10h	20h
1.60V/cell	250	203	120	-	71.6	53.1	28.9	19.2	14.06	12.4	6.55
1.65V/cell	237	195	116	-	71.1	52.4	28.3	19.0	13.96	12.3	6.50
1.70V/cell	223	187	112	-	69.7	51.3	27.7	18.8	13.87	12.2	6.44
1.75V/cell	210	179	108	-	67.5	49.9	27.1	18.7	13.72	12.1	6.38
1.80V/cell	197	171	106	-	65.4	48.5	26.3	18.5	13.58	12.0	6.30

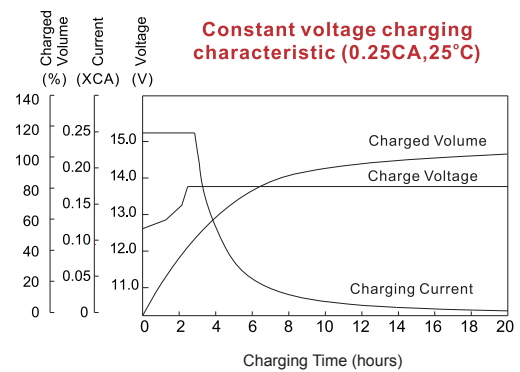
### Constant Power Discharge (Watts/cell) at 20°C

End Point	10min	15min	30min	45min	1h	1.5h	2h	3h	5h	8h
1.60V/cell	449	370	227	157	145	105.8	77.8	56.1	38.1	20.24
1.65V/cell	426	358	220	153	143	104.2	76.4	55.4	37.9	20.13
1.70V/cell	404	346	213	150	141	102.6	75.0	54.8	37.6	19.97
1.75V/cell	383	334	206	146	137	100	73.6	54.1	37.4	19.86
1.80V/cell	358	322	199	143	133	97.8	72.9	53.2	37.0	19.65

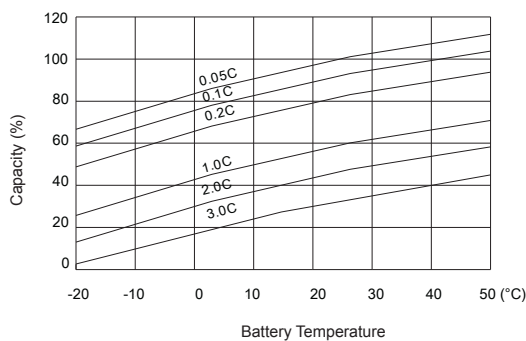
### Discharge Characteristics



### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life

