



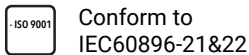
# SBL100-12i (12V100Ah)



## 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

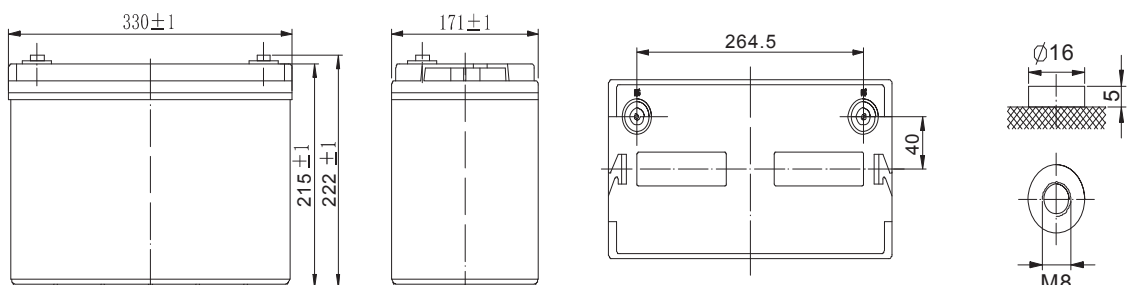
<b>Nominal Voltage</b>	12V	<b>Operating Temp. Range</b>	Discharge: -20~50°C
<b>Nominal Capacity</b>	100.0Ah (C <sub>10</sub> , 10.8V)		Charge: -10~50°C
<b>Approx. Weight</b>	29kg		Storage: -20~50°C
<b>Terminal</b>	M8	<b>Cycle Use</b>	Initial Charging Current less than 30.0A.
<b>Container Material</b>	ABS UL94 HB		Voltage 14.55V +1% at 20°C.
<b>Rated Capacity (20°C)</b>	106Ah/5.30A, 20hr, 10.8V	<b>Standby Use</b>	Temperature Coefficient -30mV/°C.
	100.0Ah/10.0A, 10hr, 10.8V		No limit on Initial Charging Current.
	94.96Ah/11.87A, 8hr, 10.5V		Voltage 13.65V +1% at 20°C.
	83.0Ah/16.6A, 5hr, 10.5V		Temperature Coefficient -20mV/°C.
	80.7Ah/26.9A/3hr/10.5V	<b>Capacity affected by Temp.</b>	40°C 103%
	66.2Ah/66.2A/1hr/9.6V		25°C 100%
<b>Max. Discharge Current</b>	900A (5s)		0°C 86%
<b>Internal Resistance / Impedance (1kHz)</b>	Approx. 5.7mΩ	<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)



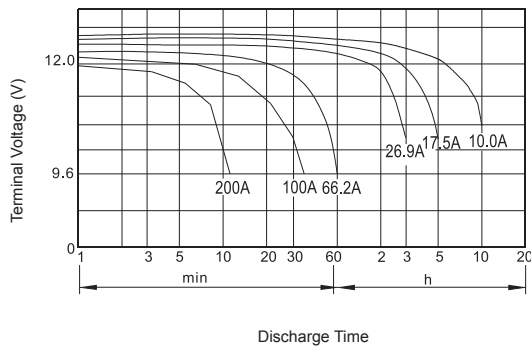
### Constant Current Discharge (Amperes) at 20°C

End Point	5min	10min	15min	30min	1h	1.5h	2h	3h	5h	6h	8h	10h	20h
1.60V/cell	-	229	185	108	66.2	45.6	35.2	27.9	17.6	15.6	12.54	10.8	5.5
1.65V/cell	-	221	178	104	62.5	45.1	34.5	27.7	17.3	15.4	12.35	10.6	5.45
1.70V/cell	-	200	164	96	61.5	44.4	33.8	27.2	17	15.1	12.11	10.4	5.4
1.75V/cell	-	187	153	93	60.5	43.7	33.1	26.9	16.6	14.8	11.87	10.2	5.35
1.80V/cell	-	175	143	91	57.4	42.5	32.5	25.3	16.3	14.5	11.63	10	5.3

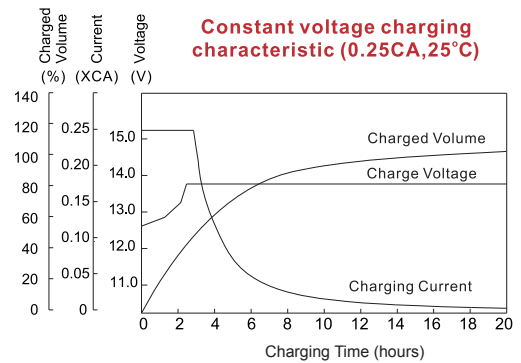
### Constant Power Discharge (Watts/cell) at 20°C

End Point	30min	45min	1h	1.5h	2h	3h	5h	8h	10h	20h
1.60V/cell	199	150	124	88.9	70.6	52.8	35.8	23.6	19.6	10
1.65V/cell	188	146	118	87.4	67.8	51.2	35.4	22	19.30	9.90
1.70V/cell	183	137	114	86.3	66.8	50.9	35	21.5	19.00	9.80
1.75V/cell	177	134	111	83.8	64.5	49.1	34.4	20.8	18.70	9.70
1.80V/cell	171	131	104	82.1	62.5	48.5	34	19.8	18.50	9.60

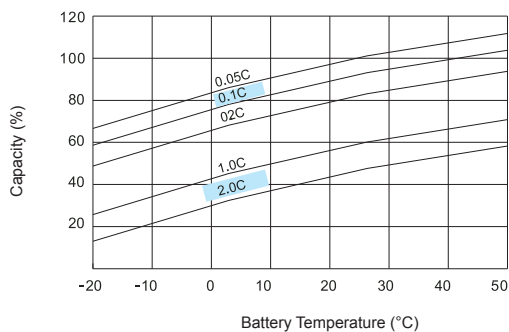
### Discharge Characteristics



### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life

