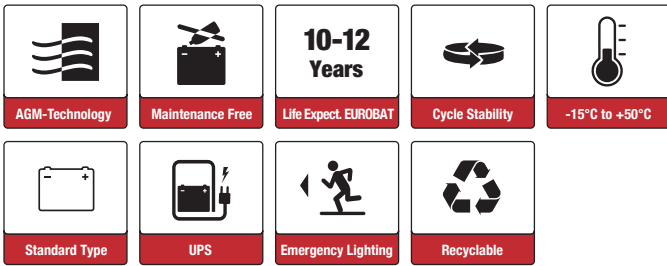




# SBL120-12i(sh) (12V120Ah)



## 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



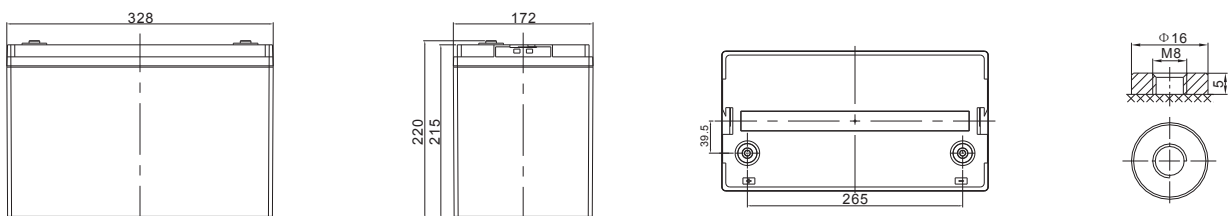
## Specifications

<b>Nominal Voltage</b>	12V	<b>Operating Temp. Range</b>	Discharge: -15~50°C
<b>Nominal Capacity</b>	110Ah (C <sub>10</sub> , 10.8V)		Charge: -20~40°C
<b>Approx. Weight</b>	30.5kg		Storage: -15~40°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>	115.4Ah/5.77A, 20hr, 10.8V		Temperature Coefficient -30mV/°C.
	110Ah/11A, 10hr, 10.8V	<b>Standby Use</b>	No limit on Initial Charging Current.
	107.2Ah/13.4A, 8hr, 10.5V		Voltage 13.74V +1% at 20°C.
	96Ah/19.2A, 5hr, 10.5V		Temperature Coefficient -20mV/°C.
	85.2Ah/28.4A, 3hr, 10.5V	<b>Capacity affected by Temp.</b>	40°C 103%
	67.2Ah/67.2A, 1hr, 9.6V		25°C 100%
<b>Max. Discharge Current</b>	1100A (5s)		0°C 86%
<b>Internal Resistance / Impedance (1kHz)</b>	Approx. 5.0mΩ	<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±2°C	<b>Life Expectancy</b>	10-12 years according to EUROBAT

## Dimensions

### ■ M8 Terminal

Unit: mm | Dimensions: 328±2 Length X 172±2 Width X 215±2 Height (220±2 Height incl. Terminal)



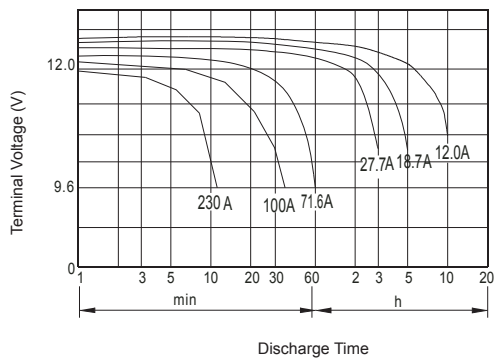
### Constant Current Discharge (Amperes) at 20°C

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	255.1	200.5	120.5	67.2	40.0	31.0	24.4	20.8	13.9	11.6	6.07
1.65V	241.0	191.7	115.6	64.9	38.8	30.1	23.7	20.2	13.8	11.5	5.97
1.70V	221.9	179.5	110.5	62.8	37.5	29.3	23.1	19.7	13.6	11.3	5.90
1.75V	203.1	167.1	105.6	60.5	36.2	28.4	22.5	19.2	13.4	11.1	5.83
1.80V	183.8	154.3	101.0	58.2	34.9	27.5	21.8	18.7	13.2	11.0	5.77
1.85V	150.3	128.0	87.0	52.2	32.0	25.4	20.3	17.4	12.4	10.4	5.48

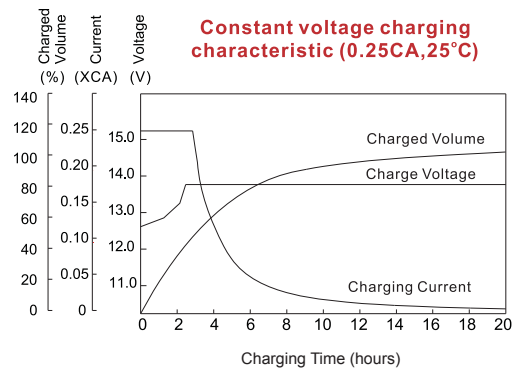
### Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	433.5	350.5	218.8	126.3	75.9	59.3	46.8	40.0	27.2	22.8	12.0
1.65V	417.6	340.0	212.3	122.7	73.8	57.7	45.7	39.1	27.0	22.6	11.8
1.70V	391.5	323.2	204.9	119.4	71.8	56.4	44.6	38.2	26.6	22.3	11.7
1.75V	364.8	305.2	197.9	115.8	69.6	54.9	43.7	37.4	26.3	22.0	11.5
1.80V	336.0	285.8	191.0	112.0	67.4	53.4	42.6	36.6	25.9	21.7	11.4
1.85V	279.5	240.5	166.2	101.0	62.1	49.6	39.7	34.2	24.4	20.5	10.9

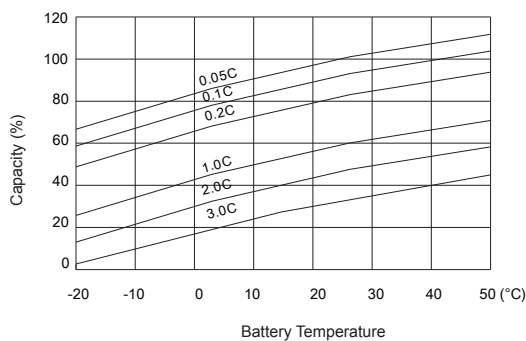
### Discharge Characteristics



### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life

