

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

Conform to
IEC60896-21&22

Specifications

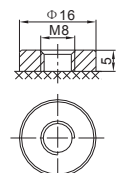
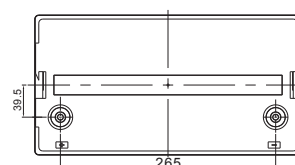
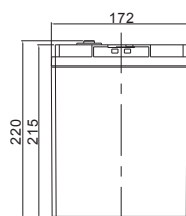
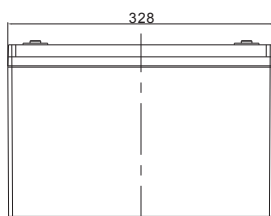


Nominal Voltage	12V	Operating Temp. Range	Discharge:	-15~50°C
Nominal Capacity	110Ah (C ₁₀ , 10.8V)		Charge:	-20~40°C
Approx. Weight	30.5kg		Storage:	-15~40°C
Terminal	M8	Float Charge	2.285V/cell ± 0.5 % @ 20°C	
Container Material	ABS UL94 HB		Charging Current:	0.1-0.2C
Rated Capacity (20°C)	115.4Ah/5.77A, 20hr, 10.8V		Temperature coefficient:	-3mV/cell/°C
	110Ah/11A, 10hr, 10.8V	Capacity affected by Temp.	40°C	103%
	107.2Ah/13.4A, 8hr, 10.5V		25°C	100%
	96Ah/19.2A, 5hr, 10.5V		0°C	86%
	85.2Ah/28.4A, 3hr, 10.5V	Self Discharge	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.	
	67.2Ah/67.2A, 1hr, 9.6V	Life Expectancy	10-12 years according to EUROBAT	
Max. Discharge Current	1100A (5s)			
Internal Resistance / Impedance (1kHz)	Approx. 5.0mΩ			
Nominal Oper. Temp. R.	20±2°C			

Dimensions

■ M8 Terminal

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



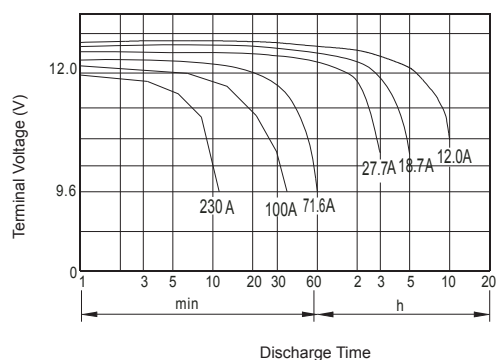
Constant Current Discharge (Amperes) at 20°C

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

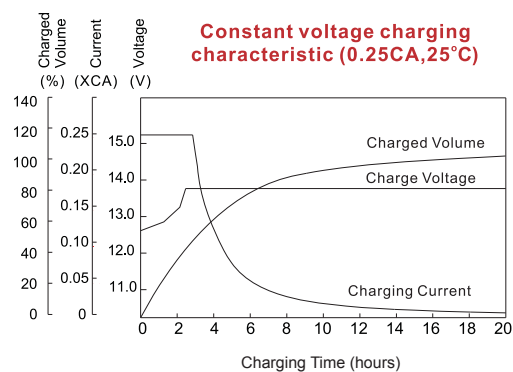
Constant Power Discharge (Watts/cell) at 20°C

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

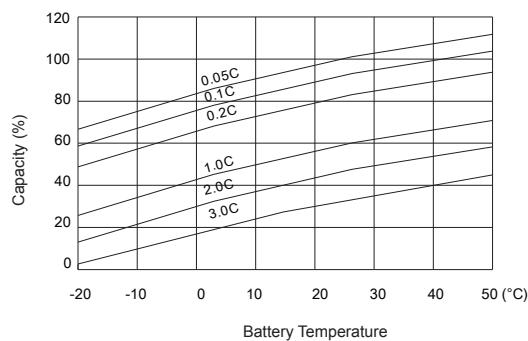
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

