



SBL55-12i (12V55Ah)



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

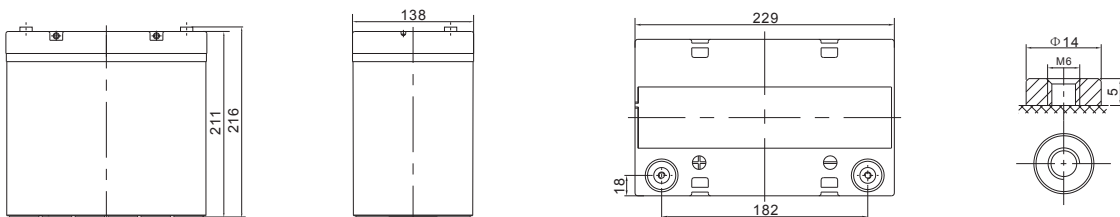


Specifications

Nominal Voltage	12V	Nominal Oper. Temp. R.	20±2°C
Nominal Capacity	55.0Ah (C ₁₀ , 10.8V)	Operating Temp. Range	Discharge: -15~50°C Charge: -20~40°C Storage: -15~40°C
Approx. Weight	16.5kg	Standby Use	No limit on Initial Charging Current. Voltage 2.295 V/cell at 20° C. Temperature Coefficient -20mV/°C.
Terminal	M6	Capacity affected by Temp.	40°C 103% 25°C 100% 0°C 86%
Container Material	ABS UL94 HB	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.
Rated Capacity (20°C)	57.8Ah/2.89A, 20hr, 10.8V 55Ah/5.5A, 10hr, 10.8V 53.52Ah/6.69A, 8hr, 10.5V 48Ah/9.60A, 5hr, 10.5V 42.6Ah/14.2A, 3hr, 10.5V 33.6Ah/33.6A, 1hr, 9.6V	Life Expectancy	10-12 years according to EUROBAT
Max. Discharge Current	550A (5s)		
Internal Resistance / Impedance (1kHz)	Approx. 6mΩ		

Dimensions

- **M6 Terminal** Unit: mm | Dimensions: 229±2 Length X 138±2 Width X 211±2 Height (216±2 Height incl. Terminal)





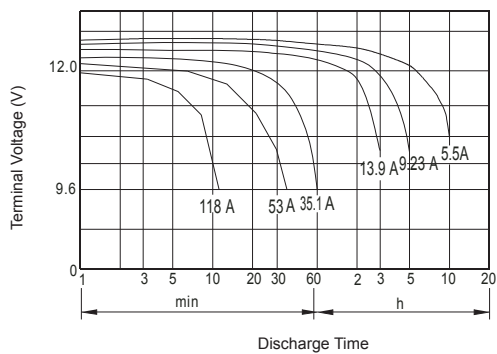
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	176.2	134.2	102.0	60.2	33.6	20.0	15.5	12.2	10.4	6.97	5.80	3.04
1.65V	169.8	126.8	97.5	57.8	32.5	19.4	15.0	11.9	10.1	6.90	5.73	2.99
1.70V	161.5	116.8	91.3	55.3	31.4	18.7	14.6	11.5	9.84	6.79	5.65	2.95
1.75V	150.9	106.9	85.0	52.8	30.2	18.1	14.2	11.2	9.60	6.69	5.57	2.91
1.80V	137.5	96.8	78.5	50.5	29.1	17.4	13.8	10.9	9.35	6.58	5.50	2.89
1.85V	121.0	79.1	65.1	43.5	26.1	16.0	12.7	10.2	8.72	6.18	5.18	2.74

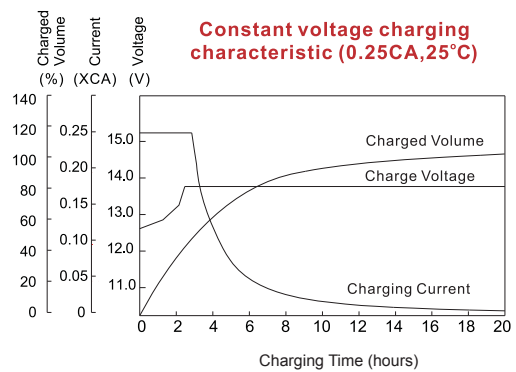
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	303.3	228.2	178.3	109.4	63.1	37.9	29.6	23.4	20.0	13.6	11.4	5.98
1.65V	300.1	219.8	173.0	106.1	61.3	36.9	28.8	22.9	19.6	13.5	11.3	5.89
1.70V	288.6	206.0	164.4	102.5	59.7	35.9	28.2	22.3	19.1	13.3	11.1	5.83
1.75V	274.5	192.0	155.2	98.9	57.9	34.8	27.5	21.8	18.7	13.2	11.0	5.76
1.80V	254.4	176.8	145.4	95.5	56.0	33.7	26.7	21.3	18.3	13.0	10.9	5.71
1.85V	227.9	147.1	122.3	83.1	50.5	31.1	24.8	19.9	17.1	12.2	10.2	5.43

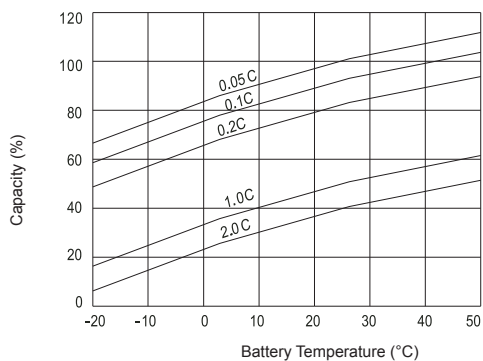
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

