SBL18-12i (12V18Ah)

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

ISO 9001 Conform to IEC60896-21&22

Specifications

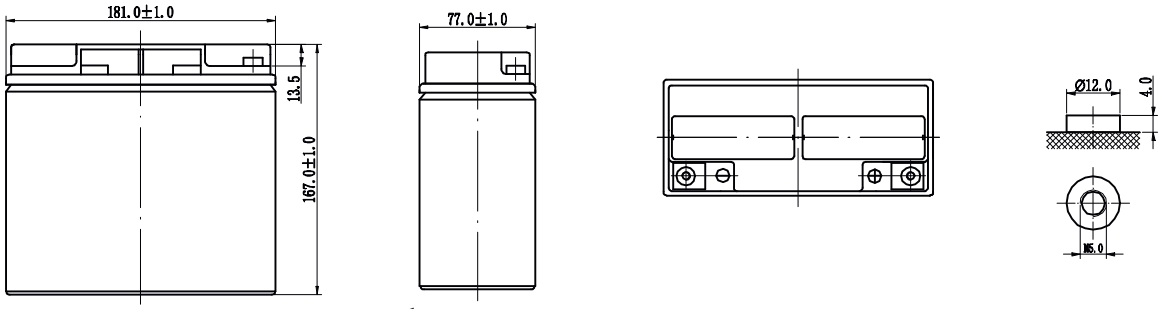
Nominal Voltage	12V
Nominal Capacity	18Ah (C_{20}, 10.5V)
Approx. Weight	5.3kg
Terminal	M5
Container Material	ABS UL94 HB
Rated Capacity (20°C)	18.0Ah/0.90A, 20hr, 10.5V
	17.1Ah/1.71A, 10hr, 10.5V
	16.96Ah/2.12A, 8hr, 10.5V
	15.8Ah/3.16A, 5hr, 10.5V
	14.52Ah/4.84A, 3hr, 10.5V
	12.1Ah/12.1A, 1hr, 9.6V
Max. Discharge Current	255A (5s)
Internal Resistance / Impedance (1kHz)	Approx. 16.5mΩ
Nominal Oper. Temp. R.	20±3°C

Operating Temp. Range	Discharge:	-20~50°C
	Charge:	-10~50°C
	Storage:	-20~50°C
Cycle Use	Initial Charging Current less than 6.8A.	
	Voltage 14.55V +-1% at 20°C.	
	Temperature Coefficient -30mV/°C.	
Standby Use	No limit on Initial Charging Current.	
	Voltage 13.65V +-1% at 20°C.	
	Temperature Coefficient -20mV/°C.	
Capacity affected by Temp.	40°C	103%
	25°C	100%
	0°C	86%
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.	
Life Expectancy	10-12 years according to EUROBAT	

Dimensions

M5 Terminal

Unit: mm | Dimensions: 181 Length X 77 Width X 167 Height (167 Height incl. Terminal)



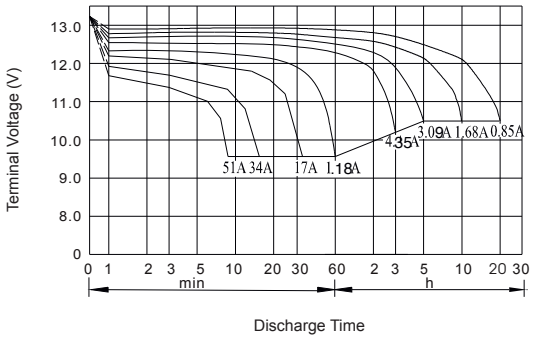
Constant Current Discharge (Amperes) at 20°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	36.0	29.0	24.3	18.3	13.6	11.1	6.43	4.70	3.70	3.08	2.64	2.07	1.67	0.882
1.80V/cell	37.8	30.1	25.1	18.7	13.8	11.3	6.53	4.77	3.76	3.12	2.67	2.10	1.69	0.891
1.75V/cell	39.6	31.2	25.8	19.2	14.1	11.5	6.63	4.84	3.81	3.16	2.70	2.12	1.71	0.900
1.70V/cell	41.5	32.3	26.6	19.6	14.4	11.7	6.73	4.91	3.86	3.21	2.74	2.15	1.73	0.910
1.65V/cell	42.6	33.0	27.0	19.9	14.5	11.8	6.80	4.95	3.89	3.23	2.76	2.17	1.74	0.915
1.60V/cell	45.2	34.5	28.1	20.5	14.9	12.1	6.93	5.05	3.97	3.29	2.81	2.20	1.77	0.928

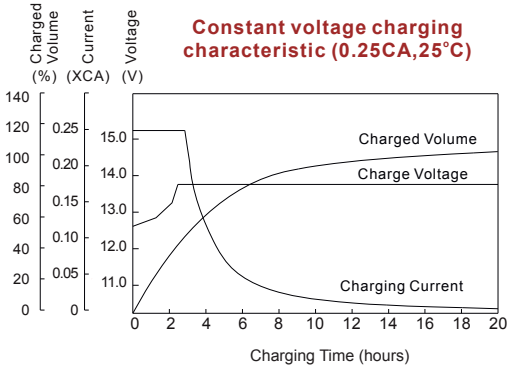
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	68.8	55.6	46.8	35.3	26.3	21.6	12.6	9.23	7.30	6.09	5.22	4.11	3.31	1.76
1.80V/cell	71.9	57.5	48.0	36.0	26.7	21.9	12.7	9.35	7.39	6.16	5.28	4.16	3.35	1.78
1.75V/cell	75.0	59.3	49.2	36.7	27.2	22.2	12.9	9.47	7.48	6.23	5.34	4.20	3.39	1.80
1.70V/cell	78.1	61.1	50.4	37.4	27.6	22.5	13.1	9.59	7.57	6.30	5.40	4.25	3.43	1.82
1.65V/cell	79.9	62.2	51.2	37.8	27.8	22.7	13.2	9.66	7.62	6.34	5.44	4.28	3.45	1.83
1.60V/cell	84.1	64.5	52.8	38.8	28.4	23.1	13.4	9.82	7.74	6.44	5.52	4.34	3.50	1.86

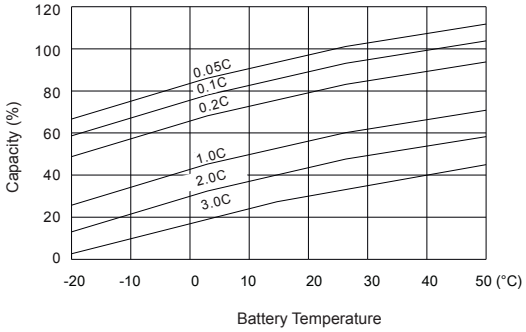
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life