SBL18-12i ES (12V18Ah)

Item Nr.: SSB2037973





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

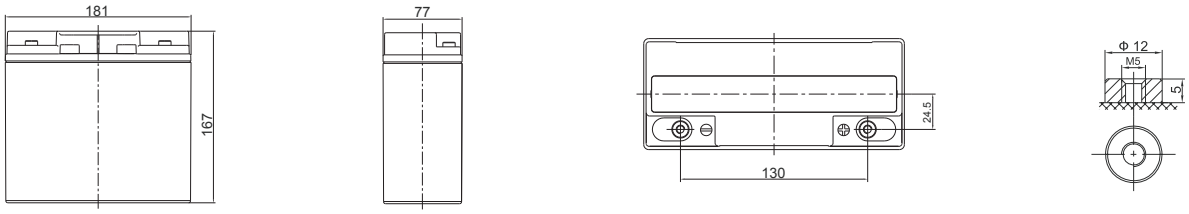
Nominal Voltage	12V
Nominal Capacity	18Ah (C_{20}, 10.5V)
Approx. Weight	5.30kg
Terminal	F-M5
Container Material	ABS UL94 HB
Rated Capacity (20°C)	17.8Ah/0.89A, 20hr, 10.8V
	16.80Ah/1.68A, 10hr, 10.5V
	14.55Ah/2.91A, 5hr, 10.5V
	13.05Ah/4.35A, 3hr, 10.5V
	11.8Ah/11.8A, 1hr, 9.6V
Max. Discharge Current	255A (5s)
Internal Resistance / Impedance (1kHz)	Approx. 16.5mΩ
Nominal Oper. Temp. R.	20±2°C

Operating Temp. Range	Discharge:	-15~50°C
	Charge:	-15~45°C
	Storage:	5~30°C
Float Charge	2.277V/cell@20°C, 2.260V/cell @25°C	
	Charging Current: 0.1-0.3C	
	Temperature Coefficient: 3mV/cell/°C	
Boost Charge	2.367V/cell@20°C, 2.350V/cell@25°C	
	Charging Current: 0.1-0.3C	
	Temperature Coefficient: 3mV/cell/°C	
Self Discharge	SSB batteries may be stored for up to 6 months at 20°C (self-discharge per month ≤3%) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Life Expectancy	10-12 years according to EUROBAT (Long Life)	

Dimensions

F-M5 Terminal

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



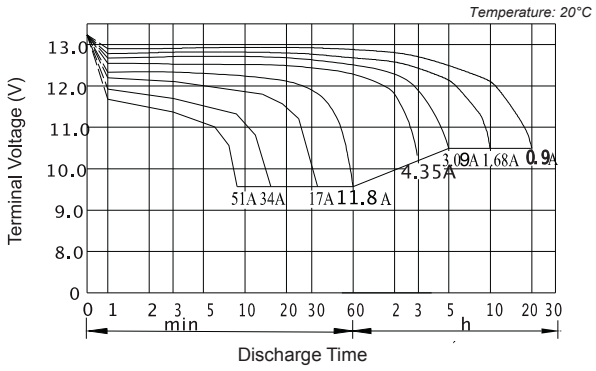
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.60V/cell	64.9	44.1	34.0	19.8	15.3	11.8	6.55	4.57	3.09	1.78	0.93
1.65V/cell	62.8	43.0	33.3	19.4	15.0	11.6	6.43	4.50	3.03	1.75	0.92
1.70V/cell	60.5	41.9	32.6	18.9	14.8	11.4	6.31	4.42	2.97	1.72	0.91
1.75V/cell	58.0	40.7	31.8	18.4	14.3	11.2	6.19	4.35	2.91	1.68	0.90
1.80V/cell	55.3	39.4	30.9	17.9	14.0	10.9	6.08	4.27	2.84	1.65	0.89

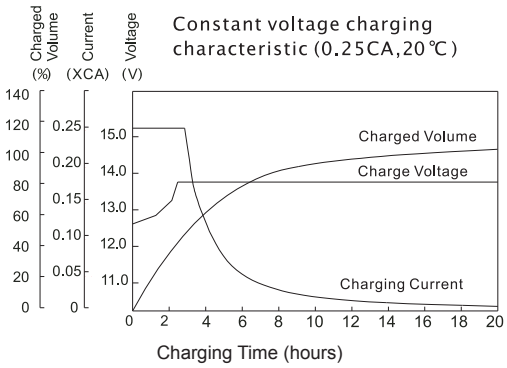
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.60V/cell	111	78.6	61.3	35.3	27.4	22.4	13.0	9.09	6.13	3.24	1.72
1.65V/cell	107	77.2	60.2	34.8	27.1	22.2	12.9	9.01	6.07	3.22	1.72
1.70V/cell	103	75.8	59.0	34.3	26.8	22.0	12.8	8.92	6.01	3.19	1.71
1.75V/cell	98	74.3	57.8	33.7	26.4	21.7	12.7	8.83	5.95	3.17	1.71
1.80V/cell	94	72.8	56.5	33.1	26.0	21.5	12.5	8.74	5.88	3.14	1.70

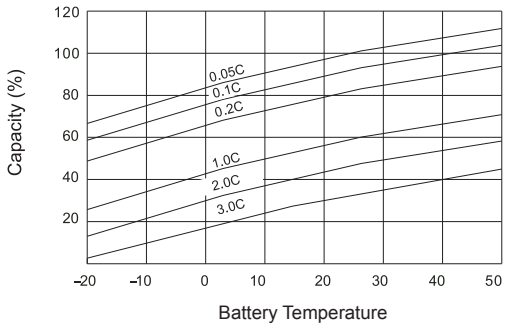
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

