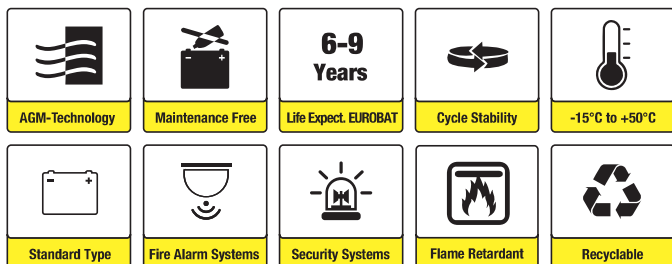




SB12-7 ES (12V7Ah)

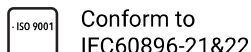
Item Nr.: 2037969



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



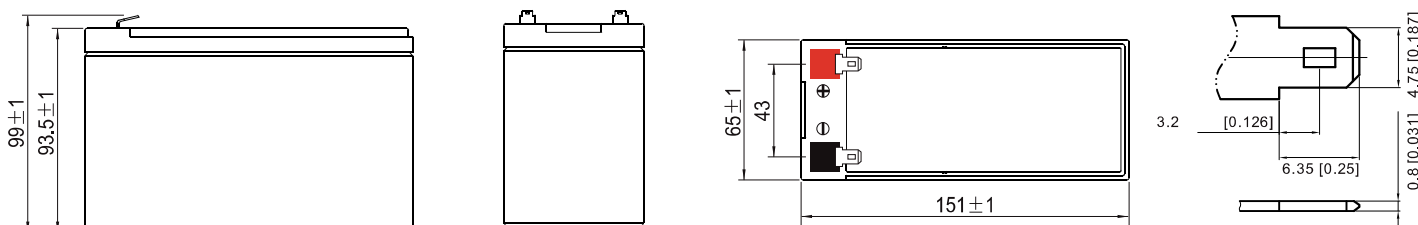
Specifications

Nominal Voltage	12V	Nominal Oper. Temp. R.	25±3°C
Nominal Capacity	7Ah (C ₂₀ 10.8V)	Float Charge	2.277V/cell@20°C, 2.260V/cell @25°C Charging Current: 0.1-0.3C Temperature Coefficient: -3.3mV/cell/°C
Approx. Weight	2.0kg	Boost Charge	2.367V/cell@20°C, 2.350V/cell@25°C Charging Current: 0.1-0.3C Temperature Coefficient: -3.3mV/cell/°C
Terminal	T1	Capacity affected by Temp.	40°C 103% 25°C 100% 0°C 86%
Container Material	ABS UL94 HB	Self Discharge	SB batteries may be stored for up to 6 months at 25°C and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Rated Capacity (25°C)	7.00Ah/0.35A, 20hr, 10.8V 6.9Ah/0.69A, 10hr, 10.8V 5.6Ah/1.12A, 5hr, 10.5V 5.07Ah/1.69A/3hr, 10.5V 4.8Ah/4.8A/1hr, 9.6V	Life Expectancy	6-9 years according to EUROBAT (General Purpose)
Max. Discharge Current	105A (5s)		
Internal Resistance / Impedance (1kHz)	Approx. 27mΩ		
Operating Temp. Range	Discharge: -15~50°C Charge: -15~45°C Storage: 5~30°C		

Dimensions

■ T1 Terminal

Unit: mm | Dimensions: 151 Length X 65 Width X 93.5 Height (99 Height incl. Terminal)





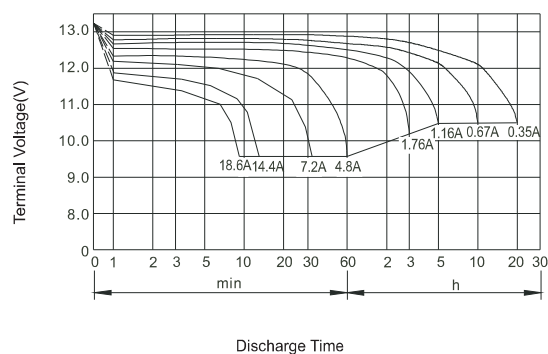
Constant Current Discharge (Amperes) at 25°C

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.60V/cell	30.0	18.8	15.3	8.50	6.48	4.80	2.77	1.88	1.25	0.71	0.38
1.65V/cell	28.4	17.9	14.6	8.15	6.25	4.63	2.60	1.82	1.20	0.70	0.38
1.70V/cell	26.8	17.0	13.9	7.86	6.02	4.44	2.52	1.76	1.16	0.70	0.37
1.75V/cell	25.2	16.0	13.2	7.56	5.75	4.25	2.45	1.69	1.12	0.69	0.36
1.80V/cell	23.5	15.1	12.5	7.18	5.46	4.04	2.39	1.64	1.10	0.67	0.35

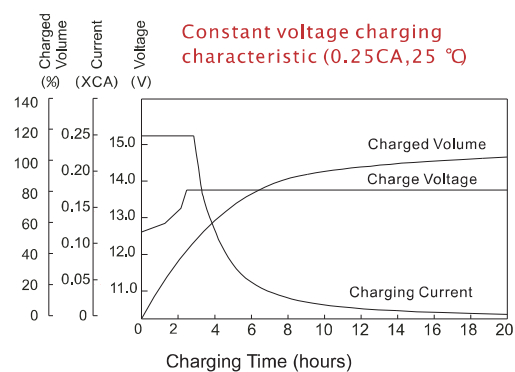
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.60V/cell	53.3	35.8	28.1	15.5	11.8	9.30	5.13	3.68	2.38	1.31	0.56
1.65V/cell	50.7	34.0	27.0	14.9	11.3	8.90	5.02	3.59	2.34	1.30	0.56
1.70V/cell	48.1	32.2	25.9	14.3	10.8	8.53	4.89	3.49	2.30	1.30	0.55
1.75V/cell	45.6	30.4	24.8	13.7	10.4	8.28	4.73	3.38	2.25	1.29	0.54
1.80V/cell	43.1	28.6	23.8	13.2	10.0	7.90	4.58	3.27	2.19	1.28	0.53

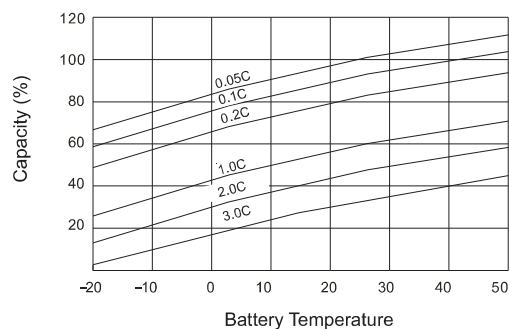
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

