



SB5-12L (12V5Ah)



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

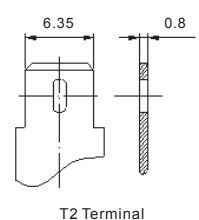
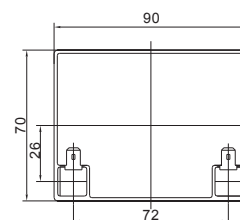
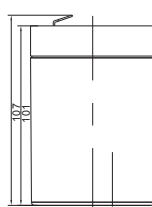
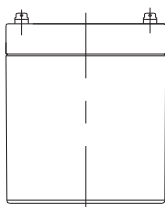


Nominal Voltage	12V	Nominal Oper. Temp. R.	20±3°C
Nominal Capacity	5Ah (C ₂₀ 10.5V)	Cycle Use	Initial Charging Current less than 1.5A. Voltage 14.55V ±1% at 20°C. Temperature Coefficient 3mV/cell/°C.
Approx. Weight	1.6kg	Standby Use	No limit on Initial Charging Current. Voltage 13.65V ±1% at 20°C. Temperature Coefficient 3mV/cell/°C.
Terminal	T2	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)	5.0Ah/0.250A, 20hr, 10.5V 4.5Ah/0.45A, 10hr, 10.5V 4.25Ah/0.85A, 5hr, 10.5V 3.75Ah/1.25A, 3hr, 10.5V 3.25Ah/3.25A, 1hr, 9.6V	Life Expectancy	6-9 years according to EUROBAT
Max. Discharge Current	75A (5s)		
Internal Resistance / Impedance (1kHz)	Approx. 45mΩ		
Operating Temp. Range	Discharge: -20~50°C Charge: -10~50°C Storage: -20~50°C		

Dimensions

■ T2 Terminal

Unit: mm | Dimensions: 90 Length X 70 Width X 101 Height (107 Height incl. Terminal)



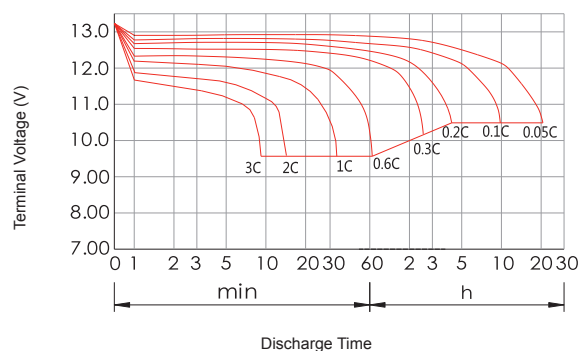
Constant Current Discharge (Amperes) at 20°C

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	19.1	12.0	9.50	5.30	3.25	1.78	1.28	1.02	0.87	0.56	0.46	0.25
9.90V	18.0	11.6	9.27	5.19	3.20	1.77	1.27	1.01	0.86	0.56	0.46	0.25
10.2V	16.4	11.2	8.93	5.04	3.12	1.75	1.26	1.01	0.86	0.56	0.45	0.25
10.5V	15.2	10.7	8.63	4.91	3.06	1.72	1.25	1.00	0.85	0.56	0.45	0.25
10.8V	14.5	10.1	8.17	4.73	2.96	1.68	1.21	0.97	0.82	0.54	0.44	0.25

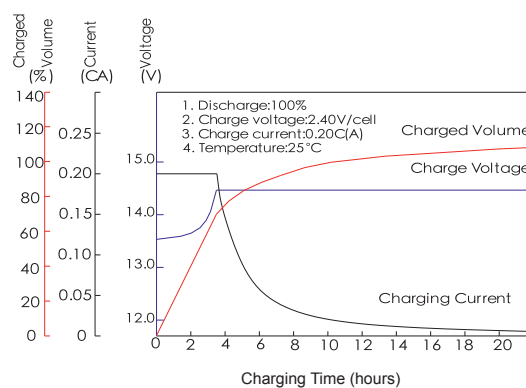
Constant Power Discharge (Watts/cell) at 20°C

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	181	135	108	60.7	37.6	20.8	15.1	12.1	10.4	6.72	5.66	3.05
9.90V	177	131	106	59.5	37.1	20.7	15.1	12.1	10.3	6.70	5.64	3.03
10.2V	174	126	102	57.7	36.1	20.5	15.0	12.0	10.2	6.64	5.61	3.02
10.5V	168	120	98.3	56.3	35.4	20.2	14.9	11.9	10.1	6.58	5.58	3.00
10.8V	161	114	93.1	54.2	34.3	19.7	14.4	11.6	9.84	6.41	5.47	2.94

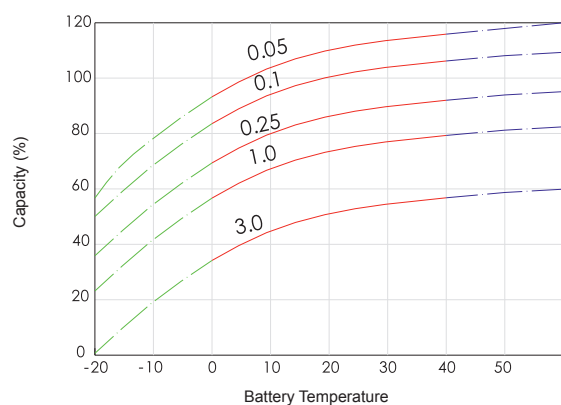
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

